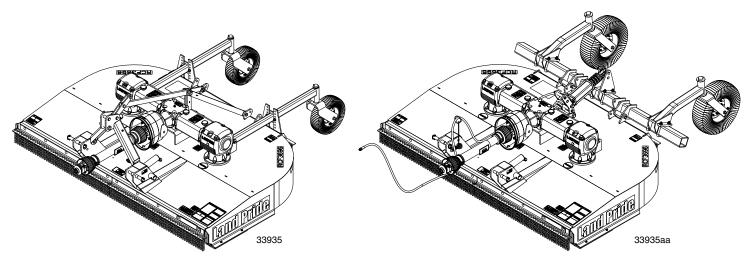
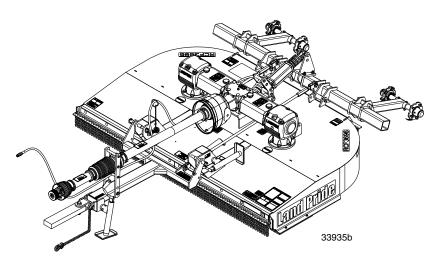
RCF3696, RCFM3696, RCF3610, & RCFM3610



3-Point with Single Tailwheels on Beam Arms

Semi-Mount with Single Tailwheels on Rear Axles



Pull Type with Dual Tailwheels on Rear Axles

326-600M **Operator's Manual**



Read the Operator's Manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Cover photo may show optional equipment not supplied with standard unit.

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Printed

12/15/15



RCF(M)3696



RCF(M)3610



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Printed in the United States of America.



These are common practices that may or may not be applicable to the products described in this manual.

Safety at All Times

Thoroughly read and understand the instructions given in this manual before operation. Refer to the "Safety Label" section, read all instructions noted on them.

Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.

- ▲ The operator must not use drugs or alcohol as they can change the alertness or coordination of that person while operating equipment. The operator should, if taking overthe-counter drugs, seek medical advice on whether he/she can safely operate the equipment.
- ▲ Operator should be familiar with all functions of the tractor and attachments, and be able to handle emergencies quickly.
- Make sure all guards and shields are in place and secured before operating implement.
- ▲ Keep all bystanders away from equipment and work area.
- Operator must start tractor and operate controls from the driver's seat only. Never from the ground.
- ▲ Do not leave tractor or implement unattended with engine running.
- ▲ Dismounting from a moving tractor can cause serious injury or death.
- ▲ Do not allow anyone to stand between tractor and implement while backing up to implement.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- Turning tractor too tight may cause hitched machinery to ride up on wheels. This could result in injury or equipment damage.

Look For The Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

Be Aware of Signal Words

A Signal word designates a degree or level of hazard seriousness. The signal words are:

A DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

WARNING

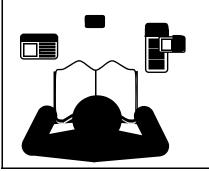
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

A CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

For Your Protection

▲ Thoroughly read and understand the "Safety Label" section, read all instructions noted on them.



Tractor Shutdown & Storage

- ▲ If engaged, disengage PTO.
- ▲ Lower attached implement to ground, put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
- Wait for all components to come to a complete stop before leaving the operator's seat.
- ▲ Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.



Manual QR Locator

The QR (Quick Reference) codes on the cover and below will take you to the Parts Manual for this equipment. Download the appropriate App on your camera phone, open the App, point your phone on the QR code, and take a picture.



RCF(M)3696



RCF(M)3610

Dealer QR Locator

The QR code below will link you to available dealers for Land Pride products.

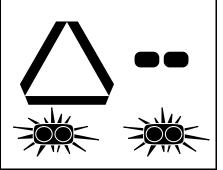




These are common practices that may or may not be applicable to the products described in this manual.

Use Safety Lights and Devices

- ▲ Slow moving tractors, self-propelled equipment, and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
- Flashing warning lights and turn signals are recommended whenever driving on public roads.



Transport Machinery Safely

- ▲ Comply with state and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity.
- ▲ Secure equipment towed on a trailer with tie downs and chains.
- ▲ Sudden braking can cause a trailer to swerve and upset. Reduce speed if trailer is not equipped with brakes.
- Avoid contact with any over head utility lines or electrically charged conductors.
- ▲ Engage park brake when stopped on an incline.

- Maximum transport speed for an attached implement is 20 mph. DO NOT EXCEED. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed.
- As a guideline, use the following maximum speed weight ratios for an attached implement:
 - **20 mph** when weight of attached implement is less than or equal to the weight of machine towing the implement.
 - 10 mph when weight of attached implement exceeds weight of machine towing implement but not more than double the weight.
- ▲ IMPORTANT: Do not tow a load that is more than double the weight of the machine towing the load.









Use A Safety Chain

- ▲ A safety chain will help control drawn machinery should it separate from the tractor drawbar.
- Use a chain with the strength rating equal to or greater than the gross weight of the towed machinery.
- ▲ Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
- ▲ Do not use safety chain for towing.



Practice Safe Maintenance

- ▲ Understand procedure before doing work. Use proper tools and equipment, refer to Operator's Manual for additional information.
- ▲ Work in a clean dry area.
- ▲ Lower attached implement to the ground, put tractor in park, turn off engine, and remove key before performing maintenance.
- Allow implement to cool before working on it.
- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.

- ▲ Do not grease or oil implement while it is in operation.
- ▲ Inspect all parts. Make certain parts are in good condition & installed properly.
- ▲ Replace parts on this machine with genuine Land Pride parts only. Do not alter this machine in a way which will adversely affect its performance.
- ▲ Remove buildup of grease, oil, or debris.
- ▲ Remove all tools and unused parts from implement before operation.







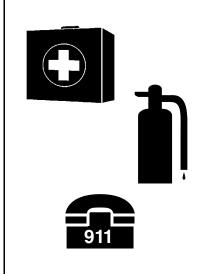




These are common practices that may or may not be applicable to the products described in this manual.

Prepare for Emergencies

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital, and fire department near phone.



Wear Protective Equipment

- ▲ Wear protective clothing and equipment appropriate for the job such as safety shoes, safety glasses, hard hat, and ear plugs.
- ▲ Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.
- ▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- Operating equipment safely requires the operator's full attention. Avoid wearing radio headphones while operating machinery.



Avoid High Pressure Fluids Hazard

- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Avoid the hazard by relieving pressure before disconnecting hydraulic lines or performing work on the system.
- Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ DO NOT DELAY. If an accident occurs, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene may result.

Tire Safety

- ▲ Tire changing can be dangerous and should be performed by trained personnel using the correct tools and equipment.
- ▲ When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- When removing and installing wheels, use wheel handling equipment adequate for the weight involved.



Use Seat Belt and ROPS

- ▲ Operate only tractors equipped with a Roll-Over Protective Structure (ROPS) and seat belt.
- ▲ Keep folding ROPS in the "locked up" position at all times.
- ▲ Fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.
- ▲ Wear protective equipment such as a hard hat, safety shoes, safety glasses, and ear plugs.



Keep Riders Off Machinery

- Never carry riders or use machinery as a person lift.
- ▲ Riders obstruct operator's view.
- Riders could be struck by foreign objects or thrown from the machine.
- ▲ Never allow children to operate equipment.

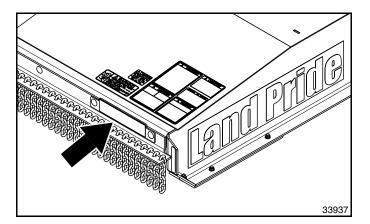




Safety Labels

Your Rotary Cutter comes equipped with all safety labels in place. They were designed to help you safely operate your implement. Read and follow their directions.

- 1. Keep all safety labels clean and legible.
- Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Land Pride dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.
- 3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as

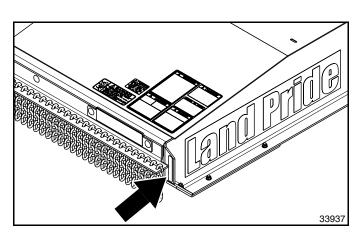


- specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.
- 4. Refer to this section for proper label placement. To install new labels:
 - a. Clean surface area where label is to be placed.
 - b. Spray soapy water onto the cleaned area.
 - c. Peel backing from label and press label firmly onto the surface.
 - d. Squeeze out air bubbles with edge of a credit card or with a similar type of straight edge.



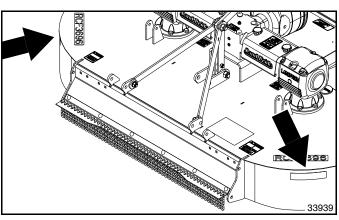
838-615C

2" x 9" Amber Reflector (Left side only)



838-062C

3/4" x 4 5/16" Amber Reflector 2 - Places (Left & right side)



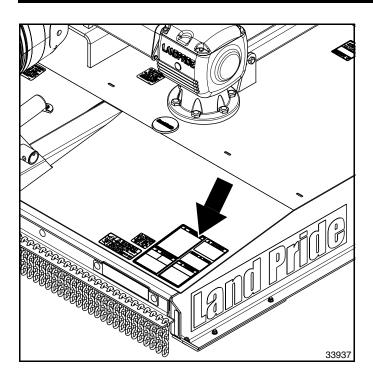
Rear Gauge Wheels Not Shown for Clarity



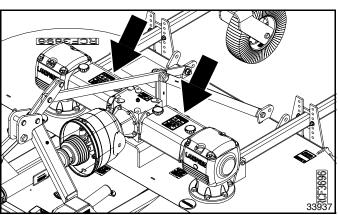
838-614C

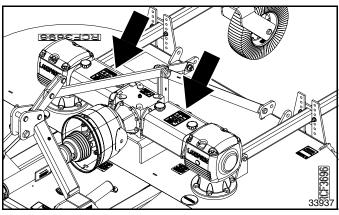
2" x 9" Red Reflector 2 - Places (Left & right side)











• All driveline guards, tractor and equipment shields in place Drivelines securely attached at both Driveline guards that turn freely on GUARD MISSING When this is visible DO NOT OPERATE ENTANGLEMENT HAZARD can cause Serious Injury or Death Si no entiende ingles, se prefiere que busque a alquien que interprete las instrucciones para usted. PHDC 6

ROTATING DRIVELINE CONTACT CAN CAUSE DEATH KEEP AWAY! DO NOT OPERATE WITHOUT -

818-552C

Safety Combo

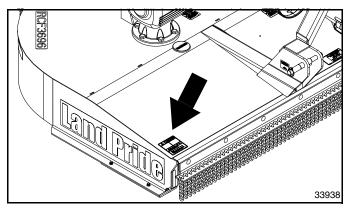
818-543C

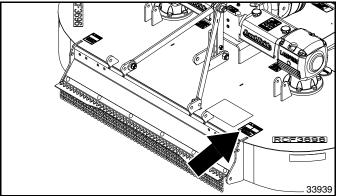
Danger Guard Missing

3 - Places (Beneath gearbox input shaft shields

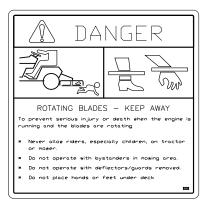
33937







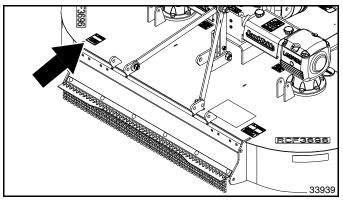
Rear Gauge Wheels Not Shown for Clarity



818-564C

Danger! Rotating Blades

2- Places (Right front corner of deck and right back side of deck)

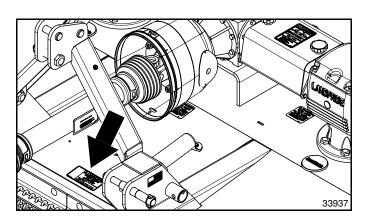


Rear Gauge Wheels Not Shown for Clarity



818-556C Danger!

Thrown Object

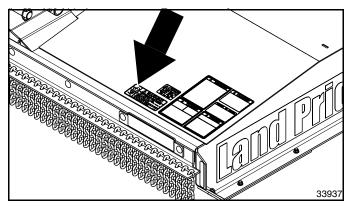




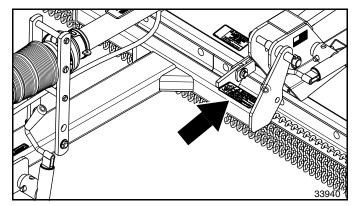
818-142C

Danger! Rotating Driveline





Semi-Mount Rotary Cutter Only

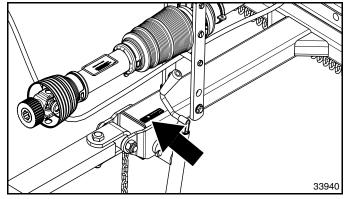


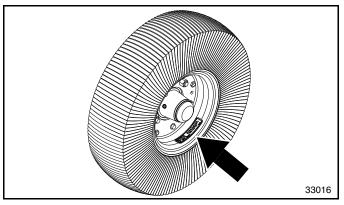
Pull-Type Rotary Cutter Only



838-094C

Warning! High Pressure



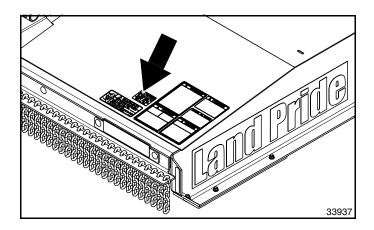




818-681C

Notice! 20 MPH Max Travel Speed Located on pull-type hitch and all gauge wheels





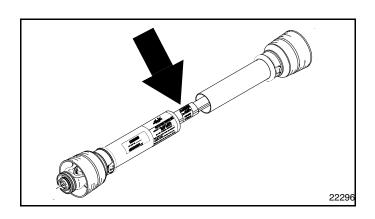


818-130C (Shown)

Caution 540 RPM

818-240C

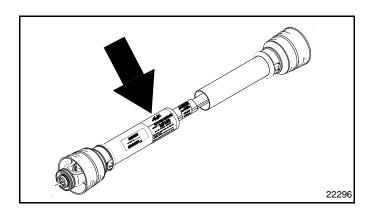
Caution 1000 RPM





818-540C

Danger! Guard Missing Do Not Operate





818-552C

Danger! Rotating Driveline Hazard Keep Away



Land Pride welcomes you to the growing family of new product owners.

This Rotary Cutter has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from this machine.

Application

The heavy duty RCF(M)3696 and RCF(M)3610 Series Rotary Cutters are designed and built by Land Pride to provide excellent cutting performance on gently sloping or slightly contoured right-of-ways, pastures, set-asideacres, or row crop fields. Their 8 or 10 foot cutting width, 2" to 12" cutting height, and ability to cut weeds and brush up to 3" in diameter make them well suited for these applications. They offer Quick Hitch adaptability with either 540 RPM or 1000 RPM PTO capability.

The RCF(M)3696 cutters are designed for Category I or II 3-point and semi-mount hitches or pull-type attachment. The 3-point hitch requires a 50 - 130 HP tractor, semi-mount hitch requires a 40 to 130 HP tractor, and pull-type set-up requires a 35 - 130 HP tractor.

The RCF(M)3610 cutters are designed for Category II or III 3-point and semi-mount hitches or pull-type attachment. The 3-point hitch requires a 60 - 130 HP tractor while semi-mount and pull-type hitches require a 50 - 130 HP tractors.

Heavy-duty stump jumpers, main driveline clutches, and outboard flex couplers are offered for driveline and gearbox protection. Safety guards around the cutter are offered in either single chain, double chain, or rubber.

See "Specifications & Capacities" on page 52 and "Features & Benefits" on page 54 for additional information and performance enhancing options.

Using This Manual

- This Operator's Manual is designed to help familiarize the operator with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator's or Parts Manual, contact your authorized dealer. Manuals can also be downloaded, free-of-charge, from our website at www.landpride.com

Terminology

"Right" or "Left" as used in this manual is determined by facing the direction the machine will operate while in use unless otherwise stated.

Definitions

NOTE: A special point of information that the operator should be aware of before continuing.

IMPORTANT: A special point of information related to the following topic. Land Pride's intention is this information must be read & noted before continuing.

Owner Assistance

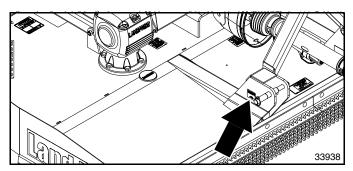
The Online Warranty Registration should be completed by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

The parts on your Rotary Cutter have been specially designed by Land Pride and should only be replaced with genuine Land Pride parts. Contact a Land Pride dealer if customer service or repair parts are required. Your Land Pride dealer has trained personnel, repair parts, and equipment needed to service the implement.

Serial Number

Model No. Serial No.

For quick reference and prompt service, record model number and serial number in the spaces provided above and again on warranty page 57. Always provide model number and serial number when ordering parts and in all correspondences with your Land Pride dealer. Refer to Figure 1 for location of your serial number plate.



Serial Number Plate Location Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new Rotary Cutter. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

- Discuss the matter with your dealership service manager making sure that person is aware of any problems you may have and has had the opportunity to assist you.
- 2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem, and request assistance.
- 3. For further assistance write to:

Land Pride Service Department

1525 East North Street P.O. Box 5060 Salina, Ks. 67402-5060

E-mail address lpservicedept@landpride.com



Tractor Requirements Weight & Horsepower



WARNING

Do not use a tractor that is too small or too large. Tractors too small can be pushed around and/or flipped over by the weight of the cutter. Tractors too large can damage the cutter.



WARNING

Ballast weights may need to be added to your tractor to maintain steering control. Refer to your tractor operator's manual to determine proper ballast requirements.

Tractor horsepower and weight must be capable of controlling the cutter under all operating conditions.

Tractors outside the horsepower range must not be used.

| RCF3696 & RCFM3696 Cutters |
|----------------------------------|
| Three-Point |
| Semi-Mount |
| Pull-Type |
| RCF3610 & RCFM3610 Cutters |
| Three-Point |
| Semi-Mount & Pull-Type 50-130 HP |

PTO Type & Speed

Tractor's rear power take-off (PTO) speed and spline type must be capable of matching the cutter's rated PTO speed and spline type.

RCF3696 and RCF3610 cutters 540 RPM 1 3/8"-6 spline rear power take-off

RCFM3696 and RCFM3610 cutters 1000 RPM 1 3/8"-21 spline rear power take-off

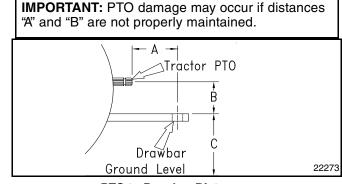
Pull-Type Hitch

Refer to Figure 1-1:

Distances between center of drawbar hitch pin hole to end of tractor PTO shaft ("A" dimension) and from top of drawbar hitch to center of PTO shaft ("B" dimension) must be maintained when using the Pull-Type hitches.

"A" = 14" for 540 RPM & 16" for 1000 RPM

"B" = 8" for 540 and 1000 RPM



PTO to Drawbar Distances Figure 1-1

3-Point Hitch

The lower 3-point arms of the 3-point hitch must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose. Category of hitch is dependent upon the model of cutter being used.

RCF3696 & RCFM3696 (Category I or II hitch)
RCF3610 & RCFM3610 (Category II or III hitch)

Dealer Preparations



WARNING

Always secure cutter with an overhead crane, fork lift, or other suitable lifting device before removing hardware bags, shipping components, bands, lag screws, and hitch pins. The cutter can suddenly fall causing serious injury or death.

IMPORTANT: The leveling rods on Pull-Type cutters are long and will make contact with the floor first when lowering cutter to the floor. It is best to remove them before lifting the cutter off the shipping crate.

Read and understand the operator's manual for your cutter. An understanding of how it works will aid in the assembly and setup of your cutter.

It is best to go through the **Assembly Checklist** before assembling the cutter. Speed up your assembly task and make the job safer by having all the needed parts and equipment readily at hand.

Assembly Checklist

| Assembly Checklist | | | |
|--------------------|---|-----------------------------------|--|
| | Check | Reference | |
| | Location of fasteners and pins. NOTE: All hardware from the factory has been installed in the location where it will be used. If a part is temporarily removed for assembly reasons, remember where it goes. Keep parts separated. | Operator's and Parts Manual | |
| | Be sure parts get used in the correct location. By double checking while you assemble, you will lessen the chance of using a bolt incorrectly that may be needed later. | Operator's Manual | |
| | All grease fittings are in place and lubricated. | Section 4 Page 49 | |
| | Safety labels are correctly located and legible. Replace if damaged. | Page 4 | |
| | Inflate tires to specified PSI air pressure. Tighten wheel bolts to specified torque. | Section 9 Page 56 | |
| | Red and amber reflectors are correctly located and visible when the cutter is in the transport position. | Page 4 | |
| | Have a minimum of 2 people at hand while assembling the cutter. | Operator's Manual | |
| | Have a fork lift or loader along with chains and safety stands that are sized for the job ready for the assembly task. | Operator's Manual | |



Torque Requirements

Refer to "Torque Values Chart" on page 56 to determine correct torque values for common bolts. See "Additional Torque Values" at bottom of chart for exceptions to standard torque values.

Gearbox Vent Plugs & Dipsticks

IMPORTANT: Rotary Cutters are shipped with a solid plug in the gearbox to prevent loss of oil during shipping and handling. The solid plug on top of the gearbox must be replaced with a vented dipstick. Do not operate cutter without vented dipstick installed.

Vent Plug Installation

Refer to Figure 1-2:

A vent plug is shipped loose and packaged with the Operator's Manual. Remove temporary solid plug on top of T-box and replace with included 3/8" vent plug. See your nearest Land Pride dealer if vent plug is missing.

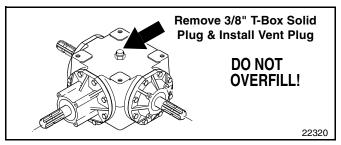


Figure 1-2

Vented Dipstick Installation

Refer to Figure 1-3:

Vented dipsticks are shipped loose and packaged with the Operator's Manual. See your nearest Land Pride dealer if dipstick is missing. Remove temporary pipe plug from top of each gearbox and replace with supplied dipsticks.

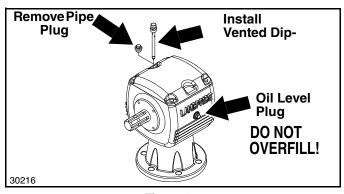


Figure 1-3

Getting Started

The RCF36 Series cutters can be purchased with either 3-point hitch, Semi-Mount hitch, or Pull-Type hitch.

3-Point Mounted Rotary Cutters

Refer to illustrations on cover of manual:

The 3-point Rotary Cutter is attached to the tractor's lower 3-point arms and upper center link. The lower 3-point arms are hydraulically adjusted to the cutting height. The height of the rear tailwheels are manually or hydraulically adjusted depending upon which option the cutter is set-up with. The tailwheels should be adjusted to hold the cutting blades slightly higher at the back than at the front. The "3-Point Assembly & Set-Up" instructions begin on page 12.

Semi-Mount Rotary Cutters

Refer to illustrations on Cover

The Semi-Mount cutter is attached to the tractor's lower 3-point arms and have more freedom to float over uneven terrain than does the 3-point mounted cutter. The lower 3-point arms are hydraulically adjusted to the cutting height. The rear tailwheels are manually adjusted with a ratchet jack or hydraulically adjusted to hold the cutting blades slightly higher at the back than at the front. The "Semi-Mount Assembly & Set-Up" instructions begin on page 17.

Pull-Type Rotary Cutters

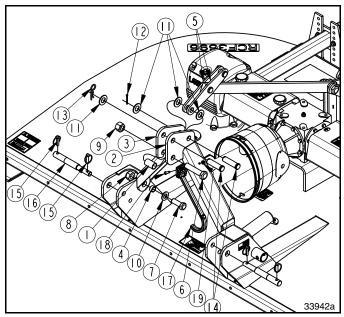
Refer to illustrations on Cover

The Pull-Type cutter is attached to the tractor drawbar. Cutting height is controlled with a hydraulic cylinder or ratchet jack. Leveling rods keep the rear of the cutter slightly higher than the front. The "Pull-Type Assembly & Set-Up" instructions begin on page 22.



3-Point Assembly & Set-Up

The following pages are Assembly & Set-Up Instructions for 3-point cutters. Not all instructions will apply to your cutter. See "Semi-Mount Assembly & Set-Up" on page 17 and "Pull-Type Assembly & Set-Up" on page 22.



3-Point Hitch Assembly (RCF(M)3696 Shown) Figure 1-4

Hitch Assembly

NOTE: Do not tighten hardware until assembly is complete. See "**Torque Values Chart**" on page 56.

Refer to Figure 1-4:

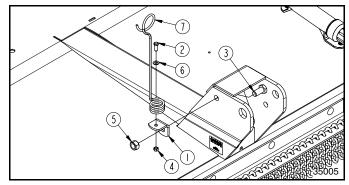
- 1. Attach Right-hand A-Frame (#3) to hitch plate as shown with 7/8"-9 x 2 1/2" GR5 cap screw (#7), flat washer (#10), bushing (#4), and nylock nut (#8).
- 2. Repeat step 1 for the left-hand A-Frame (#2).
- 3. Attach short braces (#5) to A-Frames (#2 & #3) with 1" x 3 3/16" clevis pin (#14), three flat washers (#11), and cotter pin (#12) as shown. Bend one or more legs of the cotter pin to keep it from falling out.
- 4. Secure 1 1/4" OD. bushing (#1) between the two A-Frame hitch plates (#2 & #3) with 1"-8 x 4 1/2" cap screw (#6) and nylon lock nut (#9).
- 5. Install remaining clevis pin (#14), flat washer (#11) and hairpin cotter (#13) to the A-Frame hitch assembly (#2 & #3) as shown.
- 6. Attach driveline hook (#17) to A-frame (#2) using 5/16"-18 x 1 1/4" bolt (#18) and lock nut (#19).
- 7. Tighten all hardware to the correct torque.
- 8. Remove shipping bolt and nuts in hitch pin (#16) and insert linchpins (#15).

Spring Hose Loop Assembly

Refer to Figure 1-5:

3-Point mounted cutters with hydraulic cylinder option are shipped with a spring hose loop. Skip to "**Driveline Installation**" on page 19 if hydraulics are not included.

- Attach mounting bracket (#1) with 3/4"-10 x 1 1/2" GR5 cap screw (#3) and lock nut (#5) to the outside of the right-hand clevis as shown. Tighten lock nut to the correct torque.
- 2. Attach spring hose loop (#7) to mounting bracket (#1) with 3/8"-16 x 1" GR5 cap screw (#2), flat washer (#6), and lock nut (#4). Tighten lock nut to the correct torque.



RCF(M)3610 3-Point Spring Hose Loop Mount Figure 1-5

NOTE: The RCF(M)3696 & RCFM3696 3-point cutters are shipped with tailwheels factory mounted. The RCF3610 & RCFM3610 are shipped with tailwheels not assembled to the unit.

RCF(M)3696 Tailwheel Assembly

These instructions apply only to 96" models with rear axle hydraulic lift. If hydraulics are not included with your cutter, skip to "**Driveline Installation**" on page 14.

NOTE: If preferred, rear guards may be assembled before the tailwheels. See "Assembly of Optional Equipment" on page 28 for rear guard instructions.

Refer to Figure 1-6:

- There are several cylinder mounting lugs (#5) that can be installed on axle (#1). Refer to **NOTES IN BOLD** in Figure 1-6 to make sure your cutter is equipped with the correct mounting lug and that the notch in the lug is located on the axle properly. See your nearest Land Pride dealer if it is not correct.
- 2. Install washers (#3) as follows:

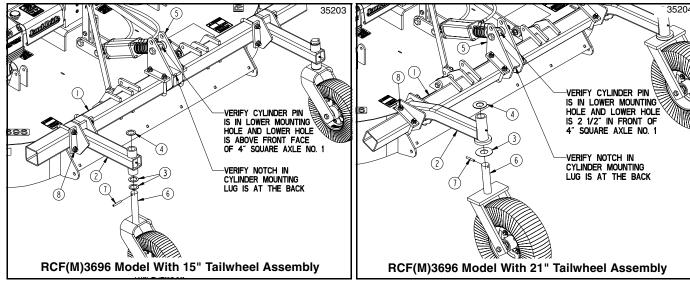
RCF(M)3696 With 15" Tailwheels

 Install two 2 1/4" O.D. machine washers (#3) onto each tailwheel spindle (#6).

RCF(M)3696 With 21" Tailwheels

 Install one special 4" O.D. harden washer (#3) onto each tailwheel spindle (#6).





RCF(M)3696 3-Point Tailwheel Assembles Figure 1-6

- 3. Insert tailwheel spindle (#6) into pivot tube on end of tailwheel arm (#2).
- 4. Install 2 1/4" O.D. machine washers (#4) over each tailwheel spindle (#6) and secure with 3/8" x 2 1/2" roll pins (#7).
- 5. Tail wheel arms (#2) should be adjusted to customer preference. When completed, they should be equal distance from center line of hydraulic lift cylinder.
 - a. Loosen hex flange lock nuts (#8) and adjust tailwheel arms (#2) in or out to desired locations.
 - b. Retighten lock nuts (#8) to the correct torque.

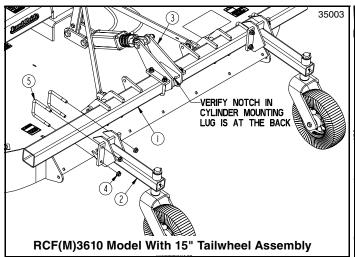
RCF(M)3610 Tailwheel Assembly

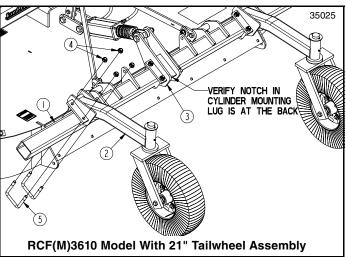
These instructions apply only to 10' models with rear axle hydraulic lift. If hydraulics are not included with your cutter, skip to "**Driveline Installation**" on page 14.

NOTE: If preferred, rear guards may be assembled before the tailwheels. See "Assembly of Optional Equipment" on page 28 for rear guard instructions.

Refer to Figure 1-7:

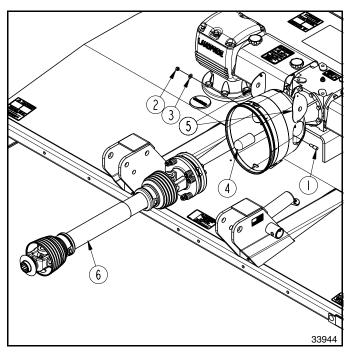
- There are several cylinder mounting lugs (#3) that can be installed on axle (#1). Refer to **NOTES IN BOLD** in Figure 1-7 to make sure your cutter is equipped with the correct mounting lug and that the notch in the lug is located on the axle properly. See your nearest Land Pride dealer if it is not correct.
- 2. Attach left and right-hand tailwheel arms (#2) to axle tube (#1) with 5/8"-11 U-bolts (#5) and hex flange lock nuts (#4). Do not tighten lock nuts.
- 3. Adjust tailwheel arms to customer preference and then tighten lock nuts (#4) to the correct torque. When completed, the tailwheel arms should be equal distance from center line of hydraulic lift cylinder.





RCF(M)3610 3-Point Tailwheel Assembles
Figure 1-7





Driveline Installation (Hitch Removed For Clarity)
Figure 1-8

Driveline Installation *Refer to Figure 1-8:*

NOTE: If preferred, the front guards may be assembled first. See "**Assembly of Optional Equipment**" on page 28 for front guard instructions.



WARNING

Make certain all driveline yokes are securely fastened at both ends. A loose yoke can work free allowing the driveline to rotate uncontrollably causing machine damage and bodily injury or death to anyone nearby.

IMPORTANT: The driveline must be lubricated before putting it into service. Refer to "**Lubrication**" on page 49.

- Remove rubber protective sleeve (#4) from gearbox input shaft and discard.
- 2. Unsnap one end of gearbox shield access doors (#5) and rotate doors open.
- 3. Remove existing conical dog pin or bolts (#1), flat washer(s) (#3), and nut(s) (#2) from slip-clutch end of driveline (#6).
- 4. Slide slip-clutch end of driveline (#6) onto gearbox input shaft. Make certain that the slip-clutch is fully onto the shaft splines.
- 5. Attach slip-clutch end of driveline to gearbox input shaft with removed conical dog pin or bolts (#1), flat washer(s) (#3), and nut(s) (#2). Tighten conical dog pin or bolts (#1) to 45-50 ft-lb torque.

- 6. Push/pull on driveline yoke to ensure it is securely fastened to the gearbox shaft.
- Rotate gearbox shield access doors (#5) closed and snap in place.
- 8. Rotate driveline storage hook down and place driveline (#6) in storage hook.

3-Point Hook-Up Instructions



DANGER

A Crushing Hazard exists when hooking-up equipment to a tractor. Do not allow anyone to stand between tractor and implement while backing-up to implement. Do not operate hydraulic 3-point lift controls while someone is directly behind tractor or near implement.



WARNING

Always disengage PTO, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for all moving parts to stop before dismounting from tractor.



DANGER

Do not engage tractor PTO while hooking-up and unhooking driveline or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline resulting in serious injury or death.



DANGER

All guards and shields must be installed and in good working condition at all times during cutter operation.



WARNING

Do not over-speed PTO or machine breakage may result. Some tractors are equipped with multispeed PTO ranges. Be certain your tractor's PTO is set for the cutter's rated PTO speed. See Specifications & Capacities for rated PTO speed.



WARNING

Do not use a PTO adapter. A PTO adapter will increase strain on the tractor's PTO shaft resulting in possible damage to shaft and driveline. It will also defeat the purpose of the tractor's master shield and could cause bodily injury or death.

IMPORTANT: An additional driveline may be required if cutter is to be used on more than one tractor, especially if a Quick Hitch is used.

NOTE: Land Pride's Quick Hitch can be attached to the tractor to provide quick and easy 3-point hookup and detachment. See your nearest Land Pride dealer to purchase a Quick-Hitch.



3-Point Hook-Up to RCF(M)3696 Cutters

The following hook-up instructions are for RCF(M)3696 cutters with or without hydraulic hoses. See page 16 for "3-Point Hook-Up to RCF(M)3610 Cutters".

- Make sure you have read and follow all Safety Alerts and Important Notes listed under "3-Point Hook-Up Instructions" on page 14 before continuing.
- 2. The RCF(M)3696 cutters are equipped with Cat. I & II hitches. Make sure your tractor's hitch is compatible with the cutter's hitch.
 - a. **Cat. I Tractors:** Lower 3-point arms have 7/8" dia. holes & upper center link has a 3/4" dia. hole.
 - b. Cat. Il Tractors: Lower 3-point arms have 1 1/8" dia. holes & upper center link has a 1" dia hole.

IMPORTANT: The tractor' lower 3-point arms must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

Refer to Figure 1-9:

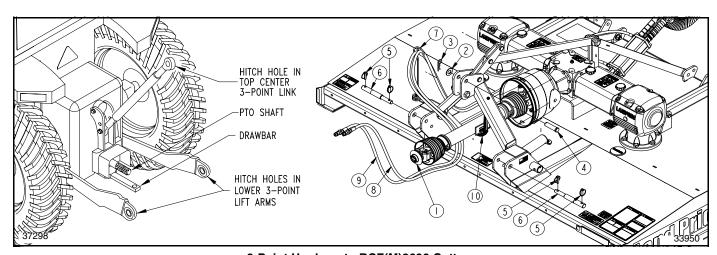
3. Remove lower linchpins (#5) and hitch pins (#6). Remove upper hairpin cotter (#3), flat washer (#2), and hitch pin (#4).

NOTE: The lower 3-point arms on a Cat. II tractor are positioned outside the clevis hitch plates. All other hook-ups will require the arms to be positioned inside the clevis hitch plates.

- Slowly back tractor to cutter while using tractor's 3-point control lever to align lower 3-point arm holes with clevis hitch pin holes.
- 5. Engage tractor park brake, shut tractor engine off, and remove key before dismounting from tractor.
- 6. Attach lower 3-point arms to clevises with hitch pins (#6). Secure hitch pins with linchpins (#5).
- 7. Connect center 3-point link to upper hitch with clevis pin (#4), flat washer (#2), and hairpin cotter (#3).

IMPORTANT: The tractor's PTO shaft and cutter gearbox shaft must be aligned and level with each other when hooking-up the driveline to the tractor.

- 8. Slowly engage 3-point lift lever to raise cutter until gearbox shaft is in-line (level) with tractor PTO shaft.
- 9. Support cutter deck at this height with support jacks or blocks to keep cutter from drifting down.
- 10. Place gear selector in park, set park brake, shut tractor off and remove switch key.
- 11. Lift driveline off of driveline support (#10). Driveline support will rotate up until secure against A-frame as it is spring loaded.
- 12. Pull back on driveline yoke collar (#1) and push driveline yoke onto tractor PTO shaft. Release pull collar and continue to push driveline yoke forward until pull collar locks in place.
- 13. Pull on both ends of driveline to make sure it is secured to tractor and gearbox shafts. If driveline yoke will not lock in place, skip to "Check Driveline Length & Clearance" on page 21.
- 14. **Hydraulic Option:** If hydraulics are included, thread hydraulic hoses (#8 & #9) through hose loop (#7) and attach to tractor duplex outlet. Hydraulic cylinder should extend when pushing control lever. Reverse hook-up if cylinder retracts.
- 15. The tractor's lower 3-point arms should be adjusted for lateral float. Please consult your tractor's manual for adjusting instructions.
- Continue with "Check Driveline Length & Clearance" on page 21.



3-Point Hook-up to RCF(M)3696 Cutters Figure 1-9



3-Point Hook-Up to RCF(M)3610 Cutters

The following hook-up instructions are for RCF(M)3610 cutters with or without hydraulic hoses. See page 15 for "3-Point Hook-Up to RCF(M)3696 Cutters".

- Make sure you have read and follow all Safety Alerts and Important Notes listed under "3-Point Hook-Up Instructions" on page 14 before continuing.
- 2. The RCF(M)3610 cutters are equipped with Cat. II & III hitches. Make sure your tractor's hitch is compatible with the cutter's hitch.
 - a. Cat. Il Tractors: Lower 3-Point arms have 1 1/8" dia. holes and upper center link has a 1" dia hole.
 - b. Cat. III Tractors: Lower 3-Point arms have 1 7/16" dia. holes & upper center link has 1 5/16"dia. hole.

IMPORTANT: The tractor' lower 3-point arms must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

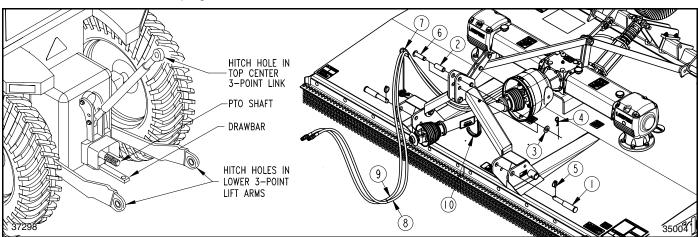
Refer to Figure 1-10:

- 3. Remove lower linchpins (#5) and hitch pins (#1). Remove upper hairpin cotter (#4), flat washer (#3), hitch tube (#2), and hitch pin (#6).
- 4. Slowly back tractor to cutter while using tractor's 3-point control lever to align lower 3-point arm holes with clevis hitch pin holes.
- 5. Engage tractor park brake, shut tractor engine off, and remove key before dismounting from tractor.
- 6. Attach lower 3-point arms to clevises with hitch pins (#1). Secure hitch pins with linchpins (#5).
- The upper center 3-point link can be attached to the cutter in one of two locations depending on which hitch category the tractor has.
 - a. Connect Cat. Il center 3-point link to the middle hitch holes in upper hitch plates with clevis pin (#6), flat washer (#3), and hairpin cotter (#4). Hitch tube (#2) is not used and should be stored with cutter for safe keeping.

b. Connect Cat. Ill center 3-point link to the upper hitch holes in upper hitch plates with clevis pin (#6), hitch tube (#2), flat washer (#3), and hairpin cotter (#4).

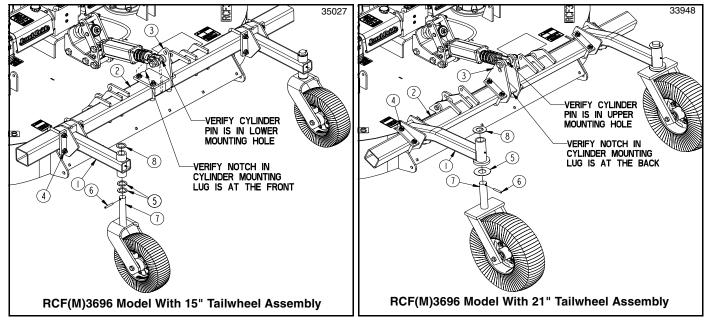
IMPORTANT: The tractor's PTO shaft and cutter gearbox shaft must be aligned and level with each other when hooking-up the driveline to the tractor.

- 8. Slowly engage 3-point lift lever to raise cutter until gearbox shaft is in-line (level) with tractor PTO shaft.
- 9. Support cutter deck at this height with support jacks or blocks to keep cutter from drifting down.
- 10. Place gear selector in park, set park brake, shut tractor off and remove switch key.
- 11. Lift driveline off of driveline support (#10). Driveline support will rotate up until secure against A-frame as it is spring loaded.
- 12. Slide outer yoke of driveline over tractor PTO shaft. Secure driveline with yoke locking device.
- 13. Pull on both ends of driveline to make sure it is secured to tractor and gearbox shafts. If driveline yoke will not lock in place, skip to "Check Driveline Length & Clearance" on page 21.
- 14. **Hydraulic Option:** If hydraulics are included, thread hoses (#8 & #9) through hose loop (#7) and attach to tractor duplex outlet. Hydraulic cylinder should extend when pushing control lever. Reverse hook-up if cylinder retracts.
- 15. The tractor's lower 3-point arms should be adjusted for lateral float. Please consult your tractor's manual for adjusting instructions.
- Continue with "Check Driveline Length & Clearance" on page 21.



3-Point Hook-up to RCFM3610 Figure 1-10





RCF(M)3696 Semi-Mount Tailwheel Assembles Figure 1-11

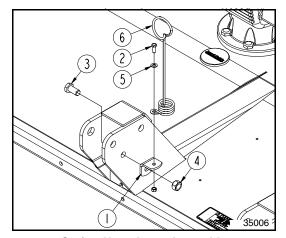
Semi-Mount Assembly & Set-Up

The following pages are Assembly & Set-Up Instructions for Semi-Mount cutters. See "3-Point Assembly & Set-Up" on page 12 and "Pull-Type Assembly & Set-Up" on page 22.

Spring Hose Loop Assembly

Refer to Figure 1-12:

- Attach mounting bracket (#1) with 3/4"-10 x 1 1/2" GR5 cap screw (#3) and lock nut (#4) to the righthand clevis as shown. Tighten nut to the correct torque.
- 2. Attach spring hose loop (#6) to mounting bracket (#1) with 3/8"-16 x 1" GR5 cap screw (#2), flat washer (#5), and lock nut (#4). Tighten nut to the correct torque.



Spring Hose Loop Assembly Figure 1-12

RCF(M)3696 Tailwheel Assembly

Refer to Figure 1-11:

NOTE: If preferred, rear guards may be assembled before the tailwheels. See "**Assembly of Optional Equipment**" on page 28 for rear guard instructions.

- There are several cylinder mounting lugs (#3) that can be installed on axle (#2). Refer to **NOTES IN BOLD** in Figure 1-11 to make sure your cutter is equipped with the correct mounting lug and that the notch in the lug is located on the axle properly. See your nearest Land Pride dealer if it is not correct.
- 2. Install washers (#5) as follows:

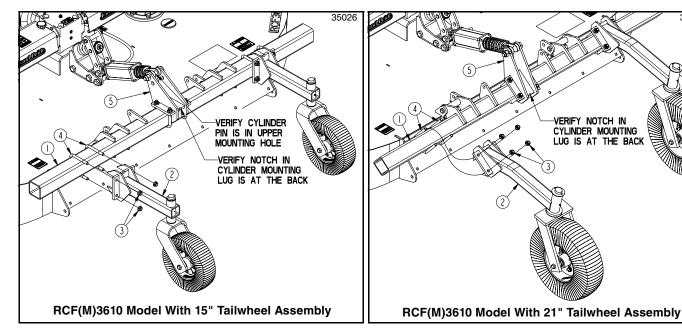
RCF(M)3696 With 15" Tailwheels

 Install two 2 1/4" O.D. machine washers (#5) onto each tailwheel spindle (#7).

RCF(M)3696 With 21" Tailwheels

- Install one special 4" O.D. harden washer (#5) onto each tailwheel spindle (#7).
- 3. Insert tailwheel spindle (#7) into pivot tube on end of tailwheel arm (#1).
- 4. Install 2 1/4" O.D. machine washers (#5) over each tailwheel spindle (#7) and secure with 3/8" x 2 1/2" roll pins (#6).
- 5. Tail wheel arms (#1) should be adjusted to customer preference. When completed, they should be equal distance from center line of hydraulic lift cylinder.
 - a. Loosen hex flange lock nuts (#4) and adjust tailwheel arms (#1) in or out to desired locations.
 - b. Retighten lock nuts (#4) to the correct torque.





RCF(M)3610 Semi-Mount Tailwheel Assembles Figure 1-13

RCF(M)3610 Tailwheel Assembly

Refer to Figure 1-13:

NOTE: If preferred, rear guards may be assembled before the tailwheels. See "**Assembly of Optional Equipment**" on page 28 for rear guard instructions.

- There are several cylinder mounting lugs (#5) that can be installed on axle (#1). Refer to **NOTES IN BOLD** in Figure 1-13 to make sure your cutter is equipped with the correct mounting lug and that the notch in the lug is located on the axle properly. See your nearest Land Pride dealer if it is not correct.
- 2. Attach left and right-hand tailwheel arms (#2) to axle tube (#1) with 5/8"-11 U-bolts (#4) and hex flange lock nuts (#3). Do not tighten lock nuts.
- 3. Adjust tailwheel arms to desired locations and tighten lock nuts (#3) to the correct torque. When completed, the tailwheel arms should be equal distance from center line of hydraulic lift cylinder.



Driveline Installation

Refer to Figure 1-14:

NOTE: If preferred, the front guards may be assembled first. See "**Assembly of Optional Equipment**" on page 28 for front guard instructions.



WARNING

Make certain all driveline yokes are securely fastened at both ends. A loose yoke can work free allowing the driveline to rotate uncontrollably causing machine damage and bodily injury or death to anyone nearby.



WARNING

Do not use a PTO adapter. A PTO adapter will increase strain on the tractor's PTO shaft resulting in possible damage to shaft and driveline. It will also defeat the purpose of the tractor's master shield and could cause bodily injury or death.

IMPORTANT: The driveline must be lubricated before putting it into service. Refer to "**Lubrication**" on page 49.

- Remove rubber protective sleeve (#4) from gearbox input shaft and discard.
- 2. Unsnap one end of gearbox shield access doors (#5) and rotate doors open.
- 3. Remove conical dog pin or bolts (#3), washer(s) (#5), and nut(s) (#2) from slip-clutch end of driveline (#6).
- 4. Slide slip-clutch end of driveline (#6) onto gearbox input shaft. Make certain that the slip-clutch is fully onto the shaft splines.
- 5. Attach slip-clutch end of driveline to gearbox input shaft with existing conical dog pin or bolts (#3), flat washer(s) (#3), and nut(s) (#2). Tighten conical dog pin or bolts (#1) on slip-clutch to 45-50 ft-lb torque.
- 6. Push/pull on driveline yoke to ensure it is securely fastened to the gearbox shaft.
- Rotate gearbox shield access doors (#5) closed and snap in place.

Semi-Mount Hook-Up



DANGER

All guards and shields must be installed and in good working condition at all times during cutter operation.



DANGER

A Crushing Hazard exists when hooking-up equipment to a tractor. Do not allow anyone to stand between tractor and implement while backing-up to implement. Do not operate hydraulic 3-point lift controls while someone is directly behind tractor or near implement.



DANGER

Do not engage tractor PTO while hooking-up and unhooking driveline or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline resulting in serious injury or death.



WARNING

Always disengage PTO, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for all moving parts to stop before dismounting from tractor.



WARNING

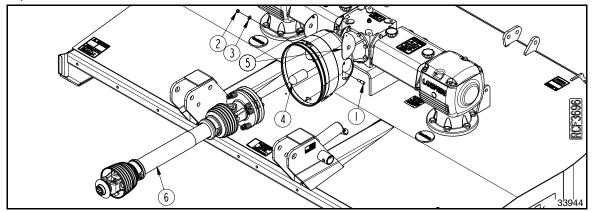
Do not over-speed PTO or machine breakage may result. Some tractors are equipped with multispeed PTO ranges. Be certain your tractor's PTO is set for the cutter's rated PTO speed. See Specifications & Capacities for rated PTO speed.



WARNING

Do not use a PTO adaptor with a quick hitch. A PTO adapter will increase strain on the tractor's PTO shaft resulting in possible damage to shaft and driveline.

IMPORTANT: An additional driveline may be required if cutter is to be used on more than one tractor, especially if a Quick Hitch is used.



Semi-Mount Driveline Installation Figure 1-14



Tractor Hook-Up To Semi-Mount Refer to Figure 1-15:

- Make sure you have read and follow all Safety Alerts and Important Notes listed on page 19 before continuing.
- 2. Locate cutter on a flat level surface.
- 3. Determine hitch category of tractor to be used:
 - a. Category I tractors will have 7/8" dia. holes in the lower 3-point arms and 3/4" dia. hole in the upper center link.
 - b. Category II tractors will have 1 1/8" dia. holes in the lower 3-point arms and 1" dia hole in the upper center link.
 - c. Category III tractor will have 1 7/16" dia. holes in the lower 3-point arms and 1 5/16" dia. hole in the upper center link.
- 4. Remove lower linchpins (#1) and hitch pins (#2).

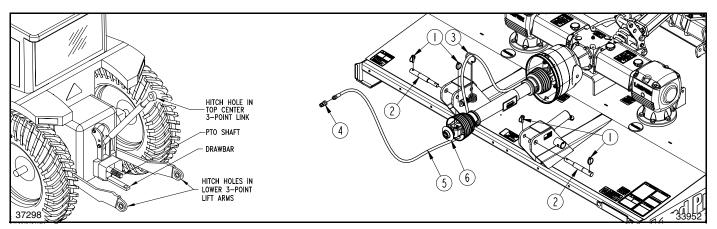
NOTE: The lower 3-point arms on a Cat. II tractor are positioned outside the clevis hitch plates when hooking-up to the RCF(M)3696. All other hook-ups will require the arms to be positioned inside the clevis hitch plates.

NOTE: The spring hose loop (#3) may need to be moved if using a Quick Hitch and the Quick Hitch interferes with spring hose loop mounting bolt. See "**Spring Hose Loop Assembly**" on page 12 for alternate location.

- Slowly back tractor to cutter while using tractor's 3-point hydraulic control lever to align holes in lower 3-point lift arms with clevis hitch pin holes.
- 6. Engage tractor park brake, shut tractor engine off, and remove key before dismounting from tractor.
- Attach lower 3-point arms to clevises with hitch pins (#2). Secure hitch pins with linchpins (#1).

IMPORTANT: The tractor's PTO shaft and cutter gearbox shaft must be aligned and level with each other when hooking-up the driveline to the tractor.

- Slowly engage tractor 3-point lift lever to raise cutter until gearbox shaft is in-line (level) with tractor PTO shaft.
- Support cutter deck at this height with support jacks or blocks to keep cutter from drifting down.
- 10. Place gear selector in park, set park brake, shut tractor off and remove switch key.
- 11. Pull back on driveline yoke collar (#6) and push driveline yoke onto tractor PTO shaft. Release pull collar and continue to push driveline yoke forward until pull collar locks in place.
- 12. Pull on both ends of driveline to make sure it is secured to tractor and gearbox shafts. If driveline yoke will not lock in place, skip to "Check Driveline Length & Clearance" on page 21.
- 13. **Hydraulic Option:** Thread hydraulic hose (#5) through spring hose loop (#3) and attach to tractor hydraulic outlet.
- 14. Manually adjust one of the lower 3-point lift arms up or down to level the cutter from left to right.
- 15. The tractor's lower 3-point arms should be adjusted for lateral float. Please consult your tractor's manual for adjusting instructions.
- 16. Continue with "Check Driveline Length & Clearance" on page 21.



Semi-Mount Tractor Hook-Up Figure 1-15



Check Driveline Length & Clearance Check Driveline Collapsible Length

IMPORTANT: A driveline that is too long can bottom out causing structural damage to tractor and cutter. Always check driveline collapsed length during initial setup, when connecting to a different tractor, and when alternating between using a quick hitch and a standard 3-point hitch. More than one driveline may be required to fit all applications.

Refer to Figure 1-14 & Figure 1-17:

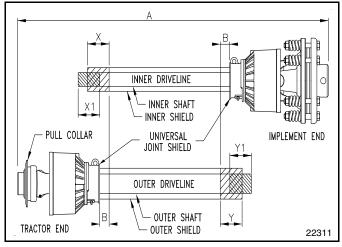
- Make sure driveline is properly installed and level before checking driveline collapsible length. Refer to "Driveline Installation" instructions on page 14 or "Driveline Installation" on page 19
- 2. With driveline level, measure 1" ("**B**" dimension) back from universal joint shield to end of outer driveline shield as shown in Figure 1-16.
- 3. If measurement is 1" or more, skip to "Check Driveline Clearance" on this page. If measurement is less than 1", continue with "Shorten Driveline".

Shorten Driveline

Refer to Figure 1-16:

Be sure to first check driveline collapsible length above. If required, shorten driveline as follows:

- Unhook driveline from tractor PTO shaft and pull outer and inner drivelines apart.
- 2. Reattach outer driveline to tractor PTO shaft. Pull on inner and outer drivelines to be sure universal joints are properly secured.
- 3. Hold inner and outer drivelines parallel to each other:
 - a. Measure 1" ("**B**" dimension) back from outer driveline universal joint shield and make a mark at this location on the inner driveline shield.
 - b. Measure 1" ("B" dimension) back from the inner driveline universal joint shield and make a mark at this location on the outer driveline shield.
- 4. Remove driveline from tractor and gearbox shafts.
- 5. Measure from end of inner shield to scribed mark ("X" dimension). Cut off inner shield at the mark. Cut same amount off the inner shaft ("X1" dimension).
- 6. Measure from end of outer shield to scribed mark ("Y" dimension). Cut off outer shield at the mark. Cut same amount off the outer shaft ("Y1" dimension).
- Remove all burrs and cuttings.
- 8. Apply multi-purpose grease to the inside of the outer shaft and reassemble driveline.
- Reattach driveline to cutter and tractor. For detailed instructions, see steps 11 to 13 under "3-Point Hook-Up to RCF(M)3696 Cutters" on page 15 or steps 11 and 12 under "Semi-Mount Hook-Up" on page 20.
- 10. Continue with "Check Driveline Clearance".



Driveline Shortening Figure 1-16

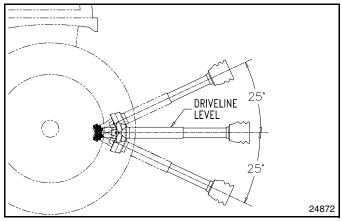
Check Driveline Clearance

- 1. Make certain driveline yokes are properly attached.
- Start tractor and raise cutter up just enough to remove support blocks. Remove support blocks.
- Slowly and carefully raise cutter to ensure drawbar, tires, and other equipment on the tractor do not contact cutter frame. Move or remove drawbar if it interferes with cutter.

Refer to Figure 1-17:

IMPORTANT: Avoid premature driveline breakdown. A driveline that is operating **must not exceed** an angle of 25 degrees up or down while operating 3-point lift.

- Raise and lower implement to find maximum extended driveline length. Check to make certain driveline does not exceed 25° up or down.
- 5. If needed, set tractor 3-point lift height to keep driveline from exceeding 25° up.



Maximum PTO Driveline Movement During Operation Figure 1-17



Pull-Type Assembly & Set-Up

The following pages are "Assembly & Set-Up Instructions" for Pull-Type cutters. Not all instructions apply to your cutter. See "3-Point Assembly & Set-Up" on page 12 and "Semi-Mount Assembly & Set-Up" on page 17.

Tailwheel Lift Options

The cutter is shipped with an attached ratchet jack or hydraulic cylinder. Hydraulic cylinder option includes hydraulic hose, stroke control spacers and quick disconnect couplings. The ratchet jack option is lever operated at the jack.

Axle Assembly

Refer to Figure 1-18:

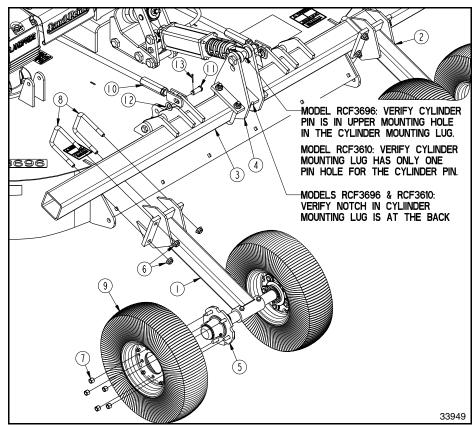
NOTE: If preferred, rear guards may be assembled before tailwheels. See "**Section 2: Assembly of Optional Equipment**" on page 28 for chain or rubber rear guard assembly instructions.

There are several hydraulic cylinder/ratchet jack mounting lugs (#4) that can be installed on axle (#3). Make sure this cutter is equipped with the correct lug and that the notch in the lug is located on the axle properly. See your nearest Land Pride dealer if mounting lug is not installed correctly or is the wrong mounting lug.

- Verify mounting lug is correct as follows:
 - Models RCF(M)3696 & RCF(M)3610: Notch in cylinder mounting lug (#4) must be positioned at the back.
 - Model RCF(M)3696: The rod end cylinder pin must be in upper mounting hole in mounting lug (#4).
 - Model RCF(M)3610: The cylinder mounting lug (#4) has only one pin hole for the cylinder pin.
- 2. Attach left and right-hand tailwheel arms (#1 & #2) to axle (#3) with 5/8"-11 U-bolts (#8) and hex flange lock nuts (#6). Do not tighten lock nuts.
- 3. Adjust tailwheel arms to desired locations. Tighten lock nuts (#6) to the correct torque.

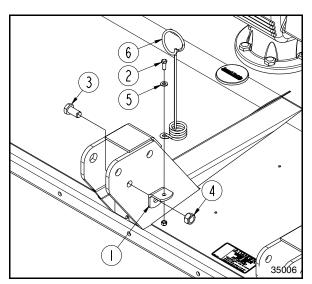
NOTE: Pull-Type cutters are supplied with either two single tailwheels or four tailwheels arranged in dual tailwheel fashion. All tailwheels are shipped loose and must be mounted to the axle hubs (#5).

- Attach tailwheels (#9) to axle hubs (#5) with 1/2"-20 x 5/8" high hex nuts (#7). Tighten 1/2" hex nuts to the correct torque in a crisscross pattern.
- 5. If leveling rods (#10) were removed while uncrating the unit, reattach them to axle (#3) as shown with clevis pins (#11), flat washers (#12), and cotter pins (#13). Bend one or more legs of cotter pins to secure it in place.



Pull-Type Tailwheel Assembly (Dual Laminated Tires Shown) Figure 1-18





Spring Hose Loop Assembly Figure 1-19

Spring Hose Loop

Refer to Figure 1-19:

- Attach mounting bracket (#1) with 3/4"-10 x 1 1/2" GR5 cap screw (#3) and lock nut (#4) to the right-hand clevis as shown. Tighten nut to the correct torque.
- 2. Attach spring hose loop (#6) to mounting bracket (#1) with 3/8"-16 x 1" GR5 cap screw (#2), flat washer (#5), and lock nut (#4). Tighten nut to the correct torque.

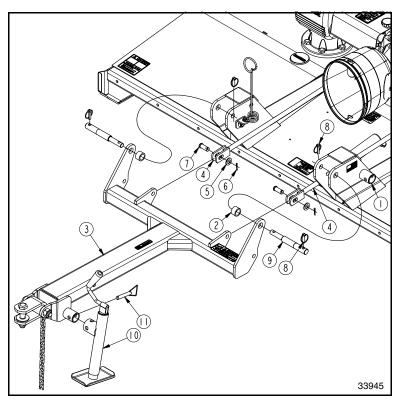
Tongue Assembly

NOTE: If preferred, the front guards may be assembled first. See "**Assembly of Optional Equipment**" on page 28 for front guard assembly instructions.

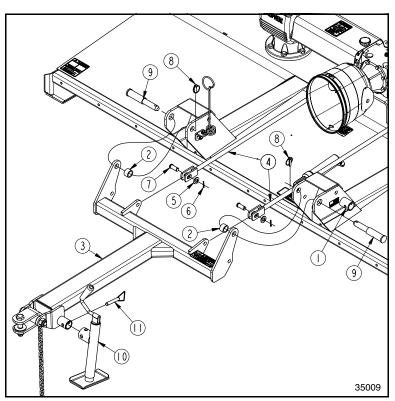
NOTE: Do not tighten hardware to the correct torque until assembly is complete.

Refer to Figure 1-20 for RCF(M)3696 and Figure 1-21 for RCF(M)3610 cutters:

- 1. Assemble tongue (#3) to the deck with hitch pins (#9), spacer tubes (#2), and linchpins (#8) as shown.
- 2. Attach level rods (#4) to tongue (#3) with clevis pins (#7), flat washers (#5), and cotter pins (#6).
- 3. Remove parking jack (#10) from storage mount (#1) and attach to tongue (#3) with detent hitch pin (#11). Make sure detent pin is fully inserted.



RCF(M)3696 Tongue Assembly Figure 1-20



RCF(M)3610 Tongue Assembly Figure 1-21



Equal Angle Driveline

The following instructions are for installation of an "Equal Angle Driveline". Instructions for "Constant Velocity Driveline" begin on page 25.



WARNING

Make certain all driveline yokes are securely fastened at both ends. A loose yoke can work free allowing the driveline to rotate uncontrollably causing machine damage and bodily injury or death to anyone nearby.



WARNING

Do not use a PTO adapter. A PTO adapter will increase strain on the tractor's PTO shaft resulting in possible damage to shaft and driveline. It will also defeat the purpose of the tractor's master shield and could cause bodily injury or death.

IMPORTANT: Maximum equal angle driveline turning angle is limited to 35 degrees.

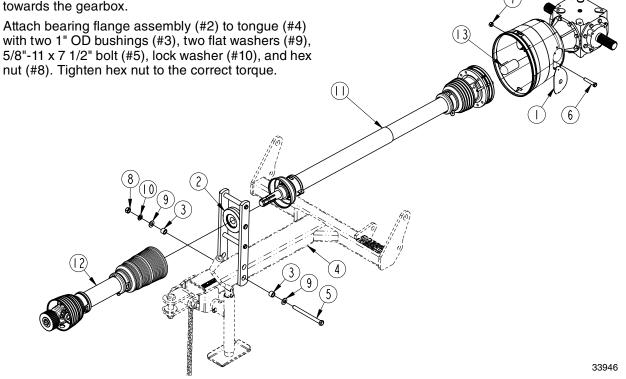
IMPORTANT: The drivelines must be lubricated before putting them into service. Refer to "Lubrication" on page 49.

NOTE: .Make sure bearing locking collar is facing rearward toward the cutter gearbox.

Refer to Figure 1-22:

- Position bearing flange assembly (#2) on tongue assembly (#4) with bearing locking collar facing towards the gearbox.
- with two 1" OD bushings (#3), two flat washers (#9). 5/8"-11 x 7 1/2" bolt (#5), lock washer (#10), and hex nut (#8). Tighten hex nut to the correct torque.

- 3. Remove rubber protective sleeve (#13) from gearbox input shaft and discard.
- Unsnap one end of gearbox shield access doors (#1) and rotate doors open.
- Remove conical dog pin or bolts (#6) and fastening hardware (#7) from slip-clutch end of driveline (#11).
- Slide slip-clutch end of driveline (#11) onto gearbox input shaft. Make certain that the slip-clutch is fully onto the shaft splines.
- Attach slip-clutch end of driveline to gearbox input shaft with existing conical dog pin or bolts (#6) and removed hardware (#7). Tighten conical dog pin or bolts (#6) to 45-50 ft-lb torque.
- 8. Push/pull on driveline yoke to be sure it is securely fastened to the gearbox shaft.
- Rotate gearbox shield access doors (#1) closed and snap in place.
- 10. Insert jackshaft of driveline (#11) through bearing support assembly (#2). Pull bearing support assembly fully against driveline (#11) to extend jackshaft splines fully through the bearing.
- 11. Install main driveline (#12) to jackshaft of driveline (#11) by pulling on locking collar and pushing driveline yoke forward onto the jackshaft until locking collar has locked in place. Make certain locking collar has engaged by pulling on the main driveline.
- 12. Tighten set screw in bearing locking collar (#2).



Equal Angle Hitch Assembly Figure 1-22



Constant Velocity Driveline

The following instructions are for installation of a "Constant Velocity Driveline". Instructions for "Equal Angle Driveline" begin on page 24.



WARNING

Make certain all driveline yokes are securely fastened at both ends. A loose yoke can work free allowing the driveline to rotate uncontrollably causing machine damage and bodily injury or death to anyone nearby.



WARNING

Do not use a PTO adapter. A PTO adapter will increase strain on the tractor's PTO shaft resulting in possible damage to shaft and driveline. It will also defeat the purpose of the tractor's master shield and could cause bodily injury or death.

IMPORTANT: Maximum constant velocity driveline turning angle is limited to 80 degrees.

IMPORTANT: The drivelines must be lubricated before putting them into service. Refer to "**Lubrication**" on page 49.

NOTE: Bearing support is to be placed in front of chain/rubber guarding.

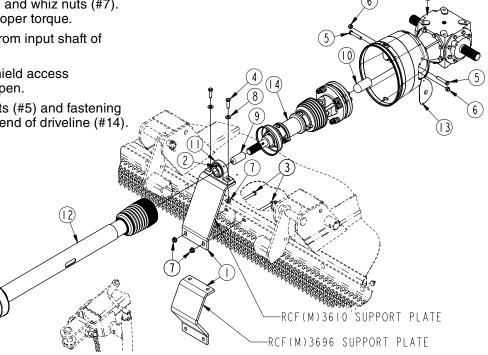
Refer to Figure 1-23:

- Remove pillow block bearing (#11) from bearing support (#1). Keep hardware for reattachment.
- 2. Attach bearing support (#1) to the deck with 1/2"-13 x 3 3/4" GR5 bolts (#3) and whiz nuts (#7). Tighten hex whiz nuts to the proper torque.
- 3. Remove shaft protector (#10) from input shaft of gearbox (#15).
- 4. Unsnap one end of gearbox shield access doors (#13) and rotate doors open.
- Remove conical dog pin or bolts (#5) and fastening hardware (#6) from slip-clutch end of driveline (#14).

- Slide slip-clutch end of driveline (#14) onto gearbox input shaft.
- Attach slip-clutch end of driveline to gearbox input shaft with existing conical dog pin or bolts (#5) and removed hardware (#6). Tighten conical dog pin or bolts (#5) to 45-50 ft-lb torque.
- 8. Push/pull on driveline yoke to be sure it is securely fastened to the gearbox shaft.
- 9. Rotate gearbox shield access doors (#13) closed and snap in place.
- 10. Remove rubber protective sleeve (#9) from end of jackshaft driveline (#14).

NOTE: Make sure bearing locking collar (#2) is facing forward toward the tractor.

- 11. Fully insert jackshaft driveline (#14) into pillow block bearing (#11).
- 12. With locking collar (#2) facing forward, attach pillow block bearing (#11) to bearing support (#1) with 1/2"-13 x 1 3/4" cap screws (#4), flat washers (#8), and hex whiz nuts (#7). Tighten nuts to the correct torque.
- 13. Rotate locking collar clockwise until tight and then tighten set screw in locking collar (#2).
- 14. Attached bolted coupler end of main driveline (#12) to jackshaft driveline (#14). Push main driveline onto the jackshaft driveline as far as possible and then tighten the bolted connection.



Constant Velocity Hitch Assembly (RCF3610 Shown) Figure 1-23



Pull-Type Hook-Up Instructions



DANGER

A Crushing Hazard exists when hooking-up equipment to a tractor. Do not allow anyone to stand between tractor and implement while backing-up to implement. Do not operate hydraulic 3-point lift controls while someone is directly behind tractor or near implement.



WARNING

Always disengage PTO, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for all moving parts to stop before dismounting from tractor.



DANGER

Do not engage tractor PTO while hooking-up and unhooking driveline or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline resulting in serious injury or death.



DANGER

All guards and shields must be installed and in good working condition at all times during cutter operation.



WARNING

Do not over-speed PTO or machine breakage may result. Some tractors are equipped with multispeed PTO ranges. Be certain your tractor's PTO is set for the cutter's rated PTO speed. See Specifications & Capacities for rated PTO speed.

IMPORTANT: Proper distances between center of drawbar hitch pin hole to end of tractor PTO shaft and from top of drawbar hitch to center of PTO shaft must be maintained for Pull-Type hitches.

IMPORTANT: Jack attachment pin must be fully inserted and secured before working on or around a cutter not hooked to the tractor drawbar.

Tractor Hook-Up

Refer to Figure 1-24 on page 27:

- Make sure you have read and follow all Safety Alerts and Important Notes listed above continuing.
- Adjust drawbar length so that center of drawbar hitch pin hole and end of tractor PTO shaft is set at the correct distance. See "Pull-Type Hitch" on page 10 for distance.
- 3. Make certain parking jack (#10) is properly attached to cutter hitch and secured with detent pin (#11).
- 4. Back tractor within close proximity of clevis (#2).
- 5. Raise or lower parking jack (#10) to align clevis (#2) with tractor drawbar. Drawbar should fit between lower and upper plates of clevis.

- Back tractor up to cutter hitch until holes in drawbar and clevis (#2) are aligned.
- 7. Install 1" flat washers (#5) above and below drawbar.
- 8. Insert 1" -8 x 4 1/2" hex bolt (#3) through top of clevis (#2), 1" flat washer (#5), tractor drawbar, second 1" flat washer (#5) and out through bottom of clevis hitch (#2). Secure bolt with hex locknut (#4). Tighten lock nut snugly to remove all play and then back nut up one-quarter turn.
- 9. Lower parking jack (#10) until hitch weight is supported by tractor drawbar.

IMPORTANT: Always store parking jack on the deck storage holder and not on the hitch. Storing parking jack on the hitch can damage the jack.

- 10. Fully retract parking jack (#10), remove locking pin (#11), and store parking jack on cutter deck with locking pin in area shown.
- 11. Pull back on driveline yoke collar (#9) and push driveline yoke onto tractor PTO shaft. Release pull collar and continue to push driveline yoke forward until pull collar locks in place.
- 12. Push/pull on both ends of driveline to make sure it is secured to tractor and gearbox shafts.

Safety Chain Hook-Up

Refer to Figure 1-24 on page 27:

When towing implements on public roads, use safety chain (#12) with tensile strength equal to or greater than gross weight of implement being towed. This will control the implement in the event the hitch pin is lost.

After attaching safety chain (#12) to the tractor, make a trial run by driving tractor to the right and to the left for a short distance to check safety chain length. If necessary, re-adjust chain length to eliminate a tight or loose chain. Make sure chain hook is securely locked in place.

Hydraulic Hook-up



DANGER

Hydraulic fluid under high pressure can penetrate skin. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for hydraulic leaks. If hydraulic fluid is injected into the skin or eyes, it must be treated by a doctor familiar with this type of injury within a few hours or gangrene may result. DO NOT DELAY.

Refer to Figure 1-24:

- Route hydraulic hose (#8) through spring hose loop (#6) and attach to tractor hydraulic outlet.
- If cutter is provided with a CV driveline, route hydraulic hose beneath trunnion support (#1).



- Check driveline for adequate clearance under all ranges of cutter height.
 - a. With driveline attached to tractor and cutter, slowly raise and lower cutter to its upper and lower limits while observing clearances between hitch and driveline.
 - Adjust tractor drawbar height and/or length if driveline interferes. See Figure 1-1 on page 10 for correct drawbar dimensions.
- Cycle hydraulic system by extending and retracting lift cylinder several times. It may be necessary to purge hydraulic system of trapped air if operation is sluggish. Refer to "Purge Hydraulic System" on this page.

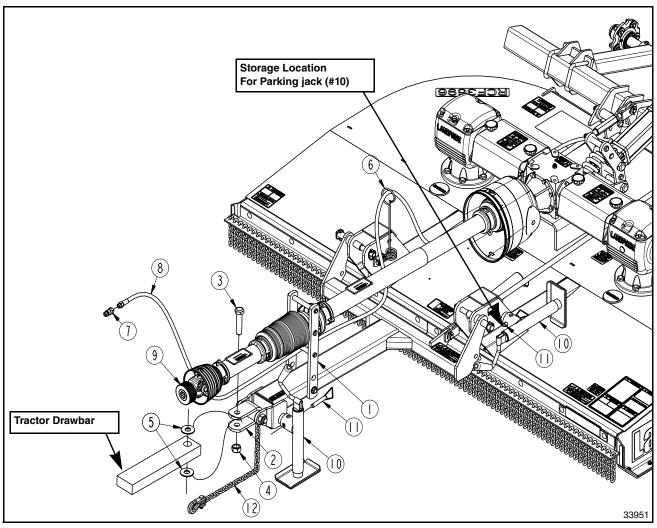
Purge Hydraulic System



DANGER

Be sure deck is lowered to the ground and all hydraulic pressure is relieved before disconnecting or reconnecting hydraulic line and/or fittings between Rotary Cutter and tractor hydraulic system.

- With deck skid shoes resting firmly on the ground, shut tractor off, and move hydraulic control lever back and forth to relieve all hydraulic pressure in the hydraulic system.
- 2. Loosen hydraulic hose fitting at the hydraulic cylinder slightly to allow air and fluid to escape.
- Restart tractor and slowly activate tractor control lever to extend hydraulic cylinder to purge trapped air from the hydraulic system.
- 4. After all air is purged from the hydraulic system and all hydraulic pressure is relieved, retighten hose fitting at the hydraulic cylinder.



Pull-Type Tractor Hook-Up Figure 1-24



Chain Safety Guards (Optional)



DANGER

Rotary Cutters have the ability to discharge objects at high speeds; therefore, the use of front and rear safety guards is strongly recommended when cutting along highways or in areas where people may be present.



WARNING

Not all objects will be stopped by safety guards. Therefore, use extreme caution when cutting in areas where people may be present. It is best to operate the cutter when no one is nearby. Stop blade rotation if someone is within several hundred feet.

NOTE: Do not tighten hardware until assemblies are complete. Refer to "**Torque Values Chart**" on page 56.

Front Chain Guard

Refer to Figure 2-2:

NOTE: The two carriage bolts "A" are not used if CV driveline option is included. See "**Constant Velocity Driveline**" on page 25.

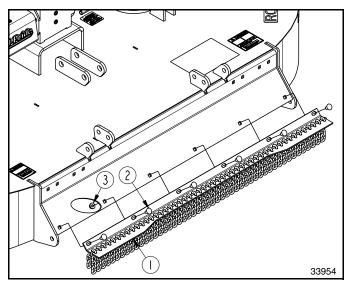
 Locate Single or Double Chain Guards (#1 & #2) with notched ends out. Attach chain guards and reflector bracket (#5) to the deck with 1/2" -13 x 3 1/2" long carriage bolts (#3) and hex whiz nuts (#4).

- 2. If Constant Velocity driveline is included, attach bearing support to front chain guards using steps 1 & 2 on page 25 for installation instructions.
- 3. Tighten hex whiz nuts (#4) to the correct torque.

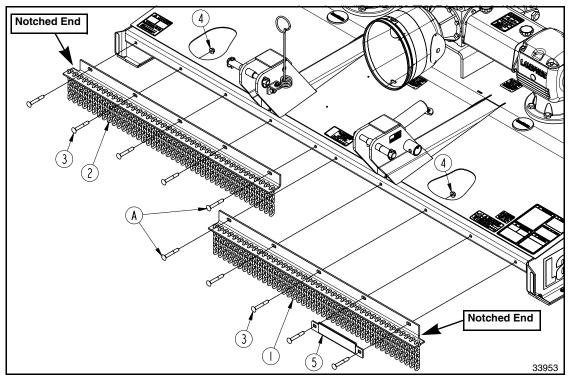
Rear Chain Guard

Refer to Figure 2-1:

- 1. Install Single or Double Rear Chain Guard (#1) to the deck rear with 1/2" -13 x 1 1/2" carriage bolts (#2), and 1/2" flange nuts (#3).
- Tighten hex whiz nuts (#3) to the correct torque.



Rear Chain Guard (RCF(M)3696 Double Chain Shown)
Figure 2-1



Front Chain Guard (RCF(M)3696 Single Chain Shown)
Figure 2-2



Rubber Safety Guards (Optional)



DANGER

Rotary Cutters have the ability to discharge objects at high speeds; therefore, the use of front and rear double chain safety guards is strongly recommended when cutting along highways or in areas where people may be present.



WARNING

Not all objects will be stopped by safety guards. Therefore, use extreme caution when cutting in areas where people may be present. It is best to operate the cutter when no one is nearby. Stop blade rotation if someone is within several hundred feet.

NOTE: Do not tighten hardware until assemblies are complete. Refer to "**Torque Values Chart**" on page 56.

Front Rubber Guards

Refer to Figure 2-4:

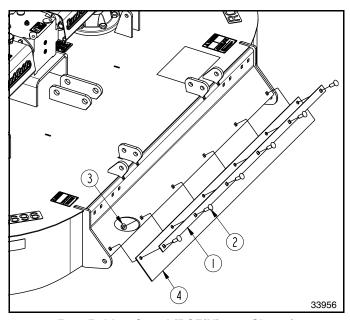
NOTE: The two carriage bolts "A" are not used if CV driveline option is included. See "**Constant Velocity Driveline**" on page 25.

- Attach front Rubber Deflectors (#1) and reflector bracket (#4) to the deck front with 1/2" -13 x 3 1/2" long carriage bolts (#2) and hex whiz nuts (#3).
- 2. If Constant Velocity driveline is included, attach bearing support to front rubber guards using steps 1 & 2 on page 25 for installation instructions.
- 3. Tighten hex whiz nuts (#3) to the correct torque.

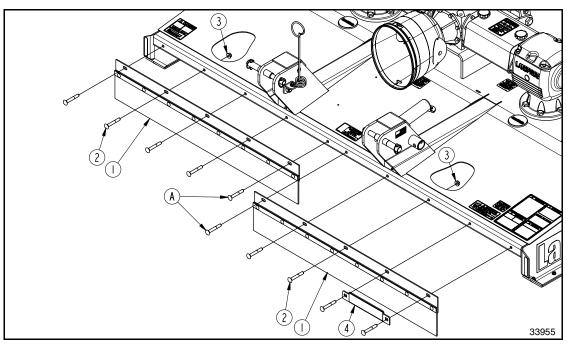
Rear Rubber Guard

Refer to Figure 2-3:

- Attach rear rubber guard (#4) and rear guard strap (#1) to the deck rear with 1/2" -13 x 1 1/2" long carriage bolts (#2), and hex whiz nuts (#3).
- 2. Tighten hex whiz nuts (#3) to the correct torque.



Rear Rubber Guard (RCF(M)3696 Shown) Figure 2-3



Front Rubber Guard (RCF(M)3696 Shown)
Figure 2-4



Check Chains (Accessory)

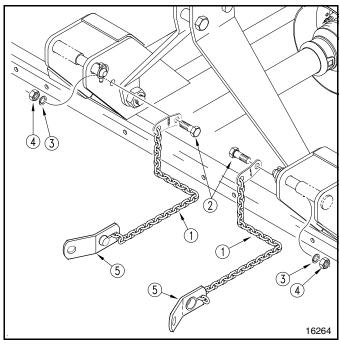
For 3-Point & Semi-Mount Cutters

(Available through Land Pride parts department.)

Refer to Figure 2-5:

Check chains are used to control the cutting height and allow the mower to be lowered to the same preset cutting height effortlessly. Install lower end of check chain (#1) to the inner hitch ear as shown in Figure 2-5, using the 3/4"-10 x 1 1/2 long bolts (#2), lock washers (#3) and nuts (#4). Tighten securely. Install chain lugs (#5) on either side of the tractor top link mount using pin (not supplied). Cutting height is then set by placing proper chain link in key slot (#5).

NOTE: For additional safety in transport, raise cutter as high as possible, and shorten check chains to prevent inadvertent falling in transport.



Check Chain Assembly Figure 2-5



Leveling & Cutting Height Adjustments For 3-Point Cutters With Beam Arms

The following instructions are for leveling and setting the cutting height of 3-point mounted cutters with tailwheels mounted on beam arms. See page 33 for "3-Point & Semi-Mount Cutters With Rear Axles" and page 35 for "Pull-Type Cutters With Rear Axles".

Four primary adjustments for the 3-point cutter should be made prior to actual field operations:

- Deck Leveling Left To Right
- Cutting Height Adjustment
- Deck Leveling Front To Back
- Center Link Adjustment

Proper adjustment of each of these items will provide higher efficiency, improved cutting performance and longer blade life.



WARNING

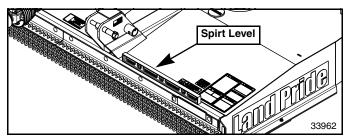
Always disengage PTO, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for all moving parts to stop before dismounting from tractor.

Deck Leveling Left To Right

Refer to Figure 3-1:

The Rotary Cutter must operate level from side to side at all times. Make certain gauge wheels are adjusted to identical heights before adjusting lower 3-point lift arms.

- Locate tractor and cutter on a flat level surface.
- 2. Use tractor's hydraulic 3-point control lever to lower cutter until tailwheels make contact with ground.
- 3. Place a spirit level or other suitable leveling device across the front of the deck.
- 4. Adjust either one or both of the tractor's lower 3-point lift arms up or down to level the deck from left to right. Some tractors have only a single adjustable lift arm.



Deck Leveling Figure 3-1

Cutting Height Adjustment



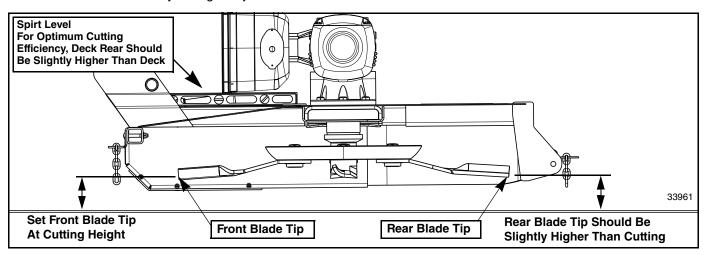
CAUTION

Avoid direct contact with cutter blades by wearing a pair of gloves. Cutter blades have sharp edges and burrs that can cause injuries.

IMPORTANT: The front blade tip should be lower than rear blade tip by approximately 1". The cutter is subject to continuous material flow under the deck if the rear blade is at the same height or lower than the front blade causing horsepower loss, grass clumps, blade wear, and frequent blade sharpening.

Refer to Figure 3-2:

- With gloves on, carefully rotate blade tips on one side of the cutter to the position shown.
- Measure distance from cutting tip of front blade to ground surface. This distance is the cutting height.
- 3. Using tractor's 3-point hydraulic control lever, raise or lower the 3-point arms until the front blade tip is at the desired cutting height.
- 4. The top center link should be loose when deck rear is supported by the tailwheel. If not, lengthen center link until loose. Final adjustment will be made later.
- 5. Set tractor's 3-point control lever stop once the 3-point arms are properly adjusted.



Cutting Height Adjustment Figure 3-2



Deck Leveling Front To Back

Refer to Figure 3-2 on page 31:

NOTE: The unit cuts most efficiently if front of cutter is slightly lower than back of cutter.

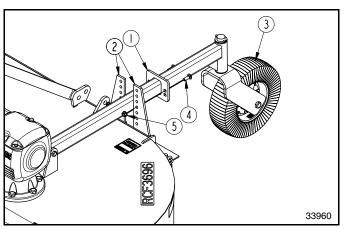
With Rotary Cutter lowered to approximate cutting height, measure distance from end of front blade cutting tip to ground and from end of rear blade cutting tip to ground. The tailwheel must be adjusted up or down if the rear blade tip is one of the following:

- Same distance off the ground as the front blade.
- Lower than the front blade.
- More than 1" higher off the ground than the front blade.

Refer to Figure 3-3:

Adjust tailwheel if cutting height is too high or too low.

- Use the tractor's 3-point hydraulic control lever to lift the cutter until tailwheel (#3) clears the ground.
- 2. Remove existing hardware; 1/2" -13 x 1 1/2" long carriage bolts (#4) and 1/2" flange nuts (#5).
- 3. Adjust tailwheel (#3) up or down to the desired cutting height by repositioning adjusting plate (#1) against mounting brackets (#2) and replacing carriage bolts (#4) and hex flange nuts (#5).
- 4. Tighten 1/2" flange nuts (#5) to the correct torque. Refer to "**Torque Values Chart**" on page 56.
- 5. Recheck cutting height. If required, repeat "Cutting Height Adjustment" instructions on page 31 and instructions for "Deck Leveling Front To Back" on this page.

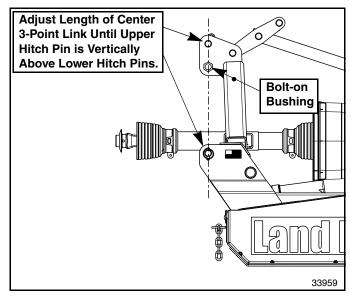


3-Point Cutter Height Adjustment Figure 3-3

Center Link Adjustment

Refer to Figure 3-4:

- 1. Lower cutter deck to preset cutting height.
- 2. Adjust length of top center 3-point link until upper hitch pin is vertically above lower hitch pins.
- 3. Lock center 3-point link in this position.



3-Point Cutter Height Adjustment Figure 3-4



Leveling & Cutting Height Adjustments For 3-Point & Semi-Mount Cutters With Rear Axles

The following instructions are for leveling and cutting height adjustments for 3-Point and Semi-Mount cutters with rear axles. See page 31 for "3-Point Cutters With Beam Arms" and page 35 for "Pull-Type Cutters With Rear Axles".

Three primary adjustments should be made prior to actual field operations:

- Deck Leveling Left To Right
- Cutting Height Adjustment
- Deck Leveling Front To Back

Proper adjustment of each of these items will provide higher efficiency, improved cutting performance and longer blade life.



WARNING

Always disengage PTO, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for all moving parts to stop before dismounting from tractor.

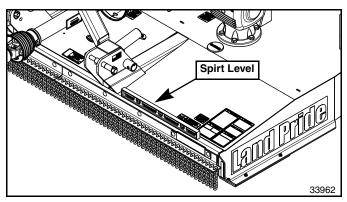
Deck Leveling Left To Right

This adjustment should be made with cutter hooked to the tractor that will be used for field operations

- 1. Having completed "**Tractor Hook-up**", locate tractor and cutter on a flat, level surface.
- 2. Use tractor's hydraulic 3-point control to lower the cutter until the front of the skid shoes are 2 to 3 inches off the ground.

Refer to Figure 3-5:

- 3. Place a spirit level or other suitable leveling device across the front of the deck.
- 4. Adjust either one or both of the tractor's lower lift arms up or down to level the deck from left to right. Some tractors have only a single adjusting crank.



Deck Leveling Figure 3-5

Cutting Height Adjustment Refer to Figure 3-6:

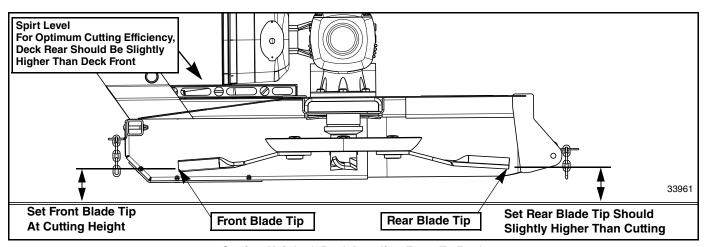


CAUTION

Avoid direct contact with cutter blades by wearing a pair of gloves. Cutter blades have sharp edges and burrs that can cause injuries.

IMPORTANT: The front blade tip should be lower than rear blade tip by approximately 1". The cutter is subject to continuous material flow under the deck if the rear blade is at the same height or lower than the front blade causing horsepower loss, grass clumps, blade wear, and frequent blade sharpening.

- 1. With gloves on, carefully rotate blade tips on one side of the cutter to the position shown in Figure 3-6.
- Measure distance from end of blade (cutting tip) to ground. This distance is the cutting height.
- Using tractor's 3-point hydraulic control lever, raise or lower the 3-point arms until the front blade tip is at the desired cutting height.
- 4. Set tractor's 3-point hydraulic control stop once the tailwheel and 3-point arms are properly adjusted.



Cutting Height & Deck Leveling Front To Back Figure 3-6



Deck Leveling Front To Back

Refer to Figure 3-6 on page 33:

NOTE: The cutter cuts most efficiently if the front of the cutter is slightly lower than the back.

Rear lift mechanism for Semi-Mount units can be either a ratchet jack (#1) or hydraulic cylinder (#2). Adjust rear lift mechanism to change the levelness from front to back.

 Place a spirit level or other suitable leveling device on one of the main deck channels to check deck profile. Deck profile should be slightly higher at the back than at the front.

Refer to Figure 3-7:

2. Raise or lower deck rear with ratchet jack (#1) or hydraulic cylinder (#2) as follows:

Ratchet Jack Instructions

- Raise or lower deck rear with ratchet jack (#1) by setting mechanism in the jack handle.
- b. Pump jack handle to raise or lower deck rear until deck is slightly higher at the back than at the front.
- c. If ratchet jack is working opposite of what is needed, reset mechanism in jack handle and return to pumping the jack handle.

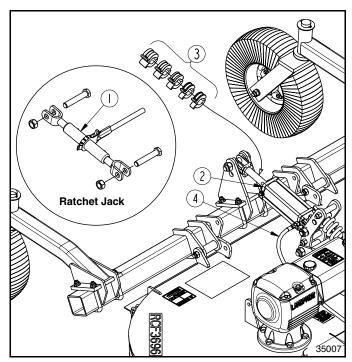
Hydraulic Cylinder Instructions

- a. Stroke control spacers (#3) are included with hydraulic cylinder (#2). They consist of cast aluminum halves with spring clips to hold the two halves together.
- b. With tractor hydraulics, extend hydraulic cylinder to free up space on the cylinder rod.
- Remove all stroke control spacers (#3) from cylinder rod by spreading spacers apart at the break line.
- Retract or extend hydraulic cylinder until deck profile is slightly higher at the back.

NOTE: Removing stroke control spacers lowers the deck rear and adding spacers raises the deck rear.

- e. Select required size and number of stroke control spacers (#3) that will fill the exposed cylinder rod. The following spacers are available.
 - Two 1" spacers
 - One 1 1/4" spacer
 - One 1 1/2" spacer
 - One 1 3/4" spacer

- f. Return to the tractor and raise Rotary Cutter up. Install selected size and number of stroke control spacers on the cylinder rod.
- g. Retract hydraulic cylinder until stroke control spacers are supporting the cutter weight.
- h. Recheck deck profile. If needed, adjust size and quantity of stroke control spacers until correct deck profile is achieved.
- Unused stroke control spacers may be stored on hydraulic hose (#4) near the hydraulic cylinder.
- Recheck cutting height. If required, repeat "Cutting Height Adjustment" instructions on page 33 and "Deck Leveling Front To Back" instructions on this page.



Cutting Height Adjustment For Semi-Mount Figure 3-7



Leveling & Cutting Height Adjustments For Pull-Type Cutters With Rear Axles

The following instructions are for leveling and setting the cutting height of a Pull-Type cutter. See page 31 for "3-Point Cutters With Beam Arms" and page 33 for "3-Point & Semi-Mount Cutters With Rear Axles".

Two primary adjustments should be made prior to actual field operations:

- Deck Leveling Front To Back
- Cutting Height Adjustment

Proper adjustment of each of these items will provide higher efficiency, improved cutting performance and longer blade life.



WARNING

Always disengage PTO, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for all moving parts to stop before dismounting from tractor.

Deck Leveling Front To Back

- Having completed "Tractor Hook-up", locate tractor and cutter on a flat, level surface.
- Use tractor's hydraulics to adjust cutter height until front of skid shoes are 2 to 3 inches off the ground.

Refer to Figure 3-9 on page 36:

3. Place a spirit level (#3) or other suitable leveling device on one of the main deck channels to check deck profile. Deck profile should be slightly higher at the back than at the front.

IMPORTANT: The front blade tip should be lower than rear blade tip by approximately 1". The cutter is subject to continuous material flow under the deck if the rear blade is at the same height or lower than the front blade causing horsepower loss, grass clumps, blade wear, and frequent blade sharpening.

Refer to Figure 3-8:

NOTE: Lengthening leveling rods with adjusting nuts (#2) raises the back of the cutter.

- 4. If cutter deck is not approximately 1" lower at the front than at the back, then loosen jam nuts (#1) on both sides of the deck and rotate leveling rod adjusting nuts (#2) equally until deck is slightly higher at the back.
- 5. Be sure that the right and left leveling rods are equally tight and then re-tighten jam nuts (#1).

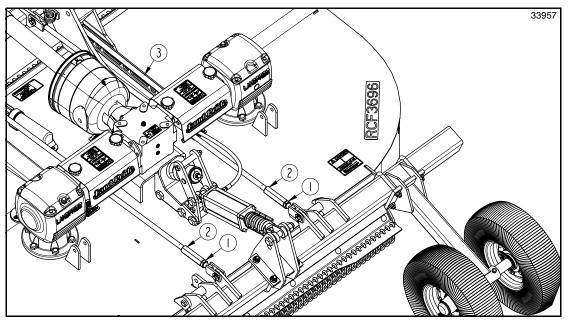
Cutting Height Adjustment Refer to Figure 3-9 on page 36:



CAUTION

Avoid direct contact with cutter blades by wearing a pair of gloves. Cutter blades have sharp edges and burrs that can cause injuries.

- With gloves on, carefully rotate blade tips on one side of the cutter to the position shown in Figure 3-9 on page 36.
- 2. Measure distance from end of blade (cutting tip) to ground. This distance is the cutting height.



Deck Leveling Figure 3-8



Refer to Figure 3-10:

3. Adjust cutting height with either the ratchet jack (#1) or hydraulic cylinder (#2) as follows:

Ratchet Jack Instructions

- a. Raise or lower cutter with the ratchet jack (#1) by setting the mechanism in the jack handle.
- b. Pump jack handle to raise or lower cutter until set to the desired traveling height or cutting height.
- c. If ratchet jack is working opposite of what is needed, reset mechanism in jack handle and return to pumping the jack handle.

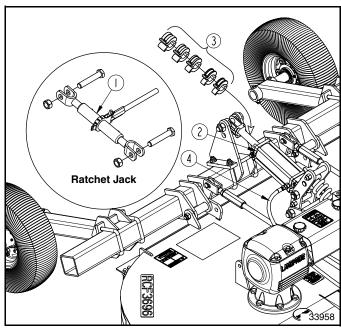
Hydraulic Cylinder Instructions

- a. Stroke control spacers (#3) are included with hydraulic cylinder (#2). They consist of cast aluminum halves with spring clips to hold the two halves together.
- b. With tractor hydraulics, extend hydraulic cylinder to free up space on the cylinder rod.
- Remove all stroke control spacers (#3) from cylinder rod by spreading spacers apart at the break line.
- d. Using tractor hydraulic cylinder control lever, lower Rotary Cutter to the desired cutting height. Measure this distance to verify cutting height is correct.
- e. Select required size and number of stroke control spacers (#3) that will fill the exposed cylinder rod. The following spacers are available.
 - Two 1" spacers
 - One 1 1/4" spacer
 - One 1 1/2" spacer
 - One 1 3/4" spacer

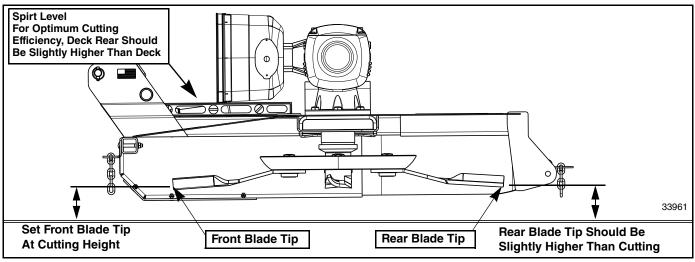
- f. Return to the tractor and raise Rotary Cutter up. Install selected size and number of stroke control spacers on the cylinder rod.
- g. Retract hydraulic cylinder until stroke control spacers are supporting the cutter weight.
- h. Recheck deck profile. If needed, adjust size and quantity of stroke control spacers until correct deck profile is achieved.

NOTE: Removing spacers lowers the cutting height and adding spacers raises the cutting height.

i. Unused stroke control spacers may be stored on hydraulic hose (#4) near the hydraulic cylinder.



Cutting Height Adjustment For Pull-Type
Figure 3-10



Deck Leveling Figure 3-9



Operating Checklist

Hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training involved in the operation, transport, maintenance and storage of the Rotary Cutter. Therefore, it is absolutely essential that no one operates the cutter without first having read, fully understood and become totally familiar with the Operator's Manual. Make sure the operator has paid particular attention to:

- Important Safety Information, pages 1 to 5
- Section 1: Assembly & Set-Up, page 10
- Section 3: Adjustments, page 31
- Section 4: Operating Instructions, page 37
- Section 5: Maintenance & Lubrication, page 43

Make sure the operator has completed the Operating Checklist and Inspection below.

Operating Checklist

| ~ | Check | Page |
|---|--|---------|
| | Read and follow all safety information carefully. Refer to "Important Safety Information". | Page 1 |
| | Make sure all guards and shields are in place. Refer to "Important Safety Information". | Page 1 |
| | Read and follow hook-up & preparation instructions. Refer to "Section 1: Assembly & Set-Up". | Page 10 |
| | Read and make all required adjustments. Refer to "Section 3: Adjustments". | Page 31 |
| | Read and follow all operating procedures. Refer to "Section 4: Operating Instructions". | Page 37 |
| | Read and follow all maintenance instructions. Refer to "Section 5: Maintenance & Lubrication". | Page 43 |
| | Make sure there are no hydraulic leaks on the unit. Refer to "Avoid High Pressure Fluids Hazard". | Page 3 |
| | Read and follow all lubrication Instructions. Refer to "Lubrication". | Page 49 |
| | Make sure all gearboxes are properly lubricated. Refer to Gearbox lubrication. | Page 50 |
| | Check cutter initially and periodically for loose bolts and pins. Refer to "Torque Values Chart". | Page 56 |

Safety Information



DANGER

Do not engage tractor PTO while hooking-up and unhooking driveline or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline resulting in serious injury or death.



DANGER

Do not operate a broken or bent driveline. Such drivelines can break apart while rotating at high speeds causing serious injury or death. Always remove Rotary Cutter from service until damaged drivelines are repaired or replaced.



DANGER

Always disconnect driveline from tractor PTO shaft before servicing underside of cutter. If tractor is started with PTO engaged, the cutter can cause bodily injury or death.



DANGER

Hydraulic fluid under high pressure can penetrate skin. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for hydraulic leaks. If hydraulic fluid is injected into the skin or eyes, it must be treated by a doctor familiar with this type of injury within a few hours or gangrene may result. DO NOT DELAY.



DANGER

Be sure deck is lowered to the ground and all hydraulic pressure is relieved before disconnecting or reconnecting hydraulic line and/or fittings between Rotary Cutter and tractor hydraulic system.



DANGER

Tractor PTO shield, gearbox shaft shield, and driveline shields must be secured in place when operating cutter to avoid injury or death from entanglement in driveline.



DANGER

All guards and shields must be installed and in good working condition at all times during cutter operation.



DANGER

Never place hands or feet under the deck or attempt to make adjustments to the cutter with PTO engaged. Cutter blades rotating at high speeds cannot be seen and are located close to the deck housing. Body extremities can be cut off instantly.



DANGER

Keep others away while cutter is operating. It can discharge objects at high speeds. Therefor, the use of front and rear safety guards is required when cutting along highways and in areas where people may be present. Stop blade rotation if a bystander is within several hundred feet.



DANGER

Always disengage PTO before lifting cutter up and never operate cutter in the raised position. The cutter can discharge objects at high speeds resulting in serious injury or death.



DANGER

Do not operate and/or travel across steep inclines where a tractor can rollover resulting in serious injury or death. Consult your tractor's manual for acceptable inclines the tractor is capable of traveling across.



DANGER

Do not use cutter as a fan. Cutting blades are not properly designed or guarded for this use. Using cutter as a fan can result in injury or death.





WARNING

Never allow riders including children on the tractor or cutter. They can fall and be ran over causing serious injury or death.



WARNING

Do not use a PTO adapter. A PTO adapter will increase strain on the tractor's PTO shaft resulting in possible damage to shaft and driveline. It will also defeat the purpose of the tractor's master shield and could cause bodily injury or death.



WARNING

Do not operate cutter with loose hardware. Loose hardware can result in a breakdown causing bodily injury or death.



WARNING

Do not use cutter to lift or carry objects, to pull fence posts, stumps or other objects, or to tow other equipment. Doing so can damage the cutter, cause serious bodily injury or death.



WARNING

Do not use deck as a working platform. The deck is not properly designed or guarded for this use. Using deck as a working platform could cause serious injury or death.



WARNING

Always disengage PTO, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for blades to come to a complete stop before dismounting tractor.



WARNING

Keep blade bolt access hole covered at all times except when servicing cutter blades. Make sure driveline is disconnected from the tractor before servicing cutter blades.



WARNING

Always disengage PTO before lifting cutter too high and never engage PTO with cutter raised too high. Doing so can cause rotating u-joints to break into pieces that can be thrown at high speeds causing serious injury or death.



WARNING

Do not over-speed PTO or machine breakage may result. Some tractors are equipped with multispeed PTO ranges. Be certain your tractor's PTO is set for the cutter's rated PTO speed. See Specifications & Capacities for rated PTO speed.



CAUTION

Buildup of debris around moving parts and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris to avoid serious injury and property damage.



CAUTION

Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level to avoid serious injury and property damage.



CAUTION

Do not exceed rated cutting capacity of your cutter. See specifications & capacities for specified cutting capacity. Exceeding ratted cutting capacities can damage drive components, cutter blades, and deck components.

Inspection of Tractor & Cutter

Make the following inspections with cutter attached to a tractor, PTO disengaged, and all moving components completely stopped:

- Park tractor and cutter on a level surface.
- Disengage PTO, place gear selector in park, set park brake, shut tractor off, and remove switch key. Make sure cutter blades have come to a complete stop before dismounting from tractor.
- 3. Inspect tractor safety equipment to make sure it is installed and in good working condition.
- 4. Inspect cutter safety equipment to make sure it is installed and in good working condition.
- Check driveline to make certain it is securely connected to the tractor PTO shaft and cutter gearbox shaft. Also, make certain that the guards are in good working condition and in place.
- 6. Carefully raise and lower implement to ensure that the drawbar, tires, and other equipment on the tractor do not contact cutter frame or driveline.
- 7. Check all hoses and wires to be sure that they will not come in contact with rotating driveline.
- With cutter resting on solid supports, PTO disengaged, and blade rotation completely stopped:
 - Check for and remove foreign objects wrapped around blade spindles.
 - Check for nicked, bent, broken, and worn cutting blades. Replace or sharpen blades as required.
 Refer to "Cutter Blade Maintenance" on page 43.
- Inspect Hydraulic hoses for wear, damage and hydraulic leaks. See "Avoid High Pressure Fluids Hazard" on page 3. Replace damaged and worn hoses with genuine Land Pride parts.

The remaining inspections are made by engaging the PTO to check for normal operation.



WARNING

Stop PTO immediately if vibration continues after a few revolutions during start-up and anytime thereafter. Wait for PTO to come to a complete stop before dismounting from tractor to check for probable causes. Make necessary repairs and adjustments before continuing.



IMPORTANT: Do not exceed rated cutter PTO speed. Excessive engine speed will cause damage to power train components.

- Start tractor and raise cutter up enough to remove solid supports from under the deck.
- Lower cutter down to a height 2 to 3 inches off the ground.
- 12. Set throttle to idle or slightly above idle, and slowly engage PTO. Initial start-up vibration is normal and should stop after a few revolutions. Stop PTO rotation immediately if vibration continues.
- 13. Once cutter is running smoothly, slowly increase tractor PTO speed to 540 RPM. Stop PTO rotation immediately if vibration occurs.
- 14. Investigate cause of vibration and make repairs before putting cutter back into service.

Transporting



WARNING

When traveling on public roads, use accessory lights, SMV sign, clean reflectors, and other adequate devices to warn operators in other vehicles of your presence. Always comply with all federal, state, and local laws.



WARNING

Reduce ground speed when turning and leave enough clearance to avoid making contact with obstacles such as buildings, trees, and fences. Making contact can result in equipment damage and serious injury or death.



WARNING

Do not tow cutter above 20 mph. Doing so can result in loss of tire, tire blow-out, and/or loss of control resulting in equipment damage and serious injury or death.

IMPORTANT: Always disengage tractor PTO before raising cutter to transport position.

- Make sure driveline does not contact tractor or cutter when raising cutter to the transport position.
- Reduce tractor ground speed when turning and leave enough turning clearance so cutter does not contact obstacles such as buildings, trees or fences.
- 3. Limit transport speed to 20 mph. Transport only with a farm tractor of sufficient size and horsepower.
- 4. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
- 5. Shift tractor to a lower gear when traveling over rough or hilly terrain.

Blade Engagement & Disengagement

Cutter blades can lock-up against each other during start-up and shut-down especially if the tractor's PTO engagement is "INSTANT ON" and "INSTANT OFF". Following Blade Engagement and Blade Disengagement instructions below will help eliminate blade lock up.

Blade Engagement

- Increase throttle speed just enough to get the blades rotating without stalling tractor while slowly engaging PTO. Use tractor's PTO soft start option if available.
- 2. Ensure that all power shafts are rotating and that the cutter is not vibrating excessively after ramping up to PTO speed for at least 3 seconds. If excessive vibration continues after 3 seconds at full PTO speed, disengage PTO immediately, shut down tractor, remove switch key, and wait for blades to come to a complete stop.
- 3. Check blades for a lock-up situation. Block cutter deck up before working under the unit. Unlock blades, remove support blocks, and repeat "Blade Engagement" instructions.

Blade Disengagement

- Slowly decrease throttle speed until engine idle speed is reached and then disengage PTO.
- 2. Engage tractor park brake, shut tractor engine off and remove switch key. Stay on tractor until blades have come to a complete stop.



Field Operation



WARNING

Clear area to be cut of debris and other unforeseen removable objects before cutting. Mark any potential hazards that cannot be removed such as tree stumps, post, rocks, holes, and dropoffs with a visible flag.

IMPORTANT: Do not back pull-type cutter into solid objects. The joint where the tongue is pinned to the deck will pivot upward causing the front edge of the deck to press against the driveline.

Your cutter is equipped with free swinging cutting blades to reduce shock loads when striking obstacles. However, it is best to avoid striking obstacles to extend cutter and blade life.

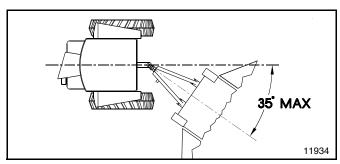
Maintain correct PTO speed. Loss of PTO speed will allow blades to swing back resulting in ragged, uneven cutting. Excessive engine speed will cause damage to the power train components.

NOTE: Do not cut in wet conditions. Wet material will build up on the deck underside creating poor discharge, high wear, and additional horsepower consumption.

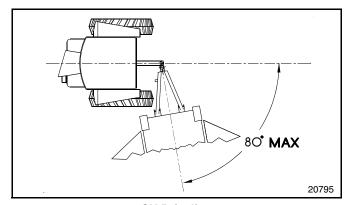
Periodically disengage PTO, turn off tractor, remove key & check for objects wrapped around blade spindle. Block deck up before removing objects.

Frequently inspect cutter for loose bolts and nuts. Tighten all loose hardware as indicated in the "Torque Values Chart" on page 56.

- Thoroughly inspect area to be cut for debris and unforeseen objects. Mark any potential hazards.
- Follow "Blade Engagement" instructions on this page to start cutter blades turning.
- Optimum ground speed depends on density of material, tractor horsepower, and terrain. Always operate tractor at the cutter's full-rated PTO speed in a gear range (2 to 5 mph) that allows the cutter to make smooth cuts without lugging tractor down.
- 4. Stop traveling and disengage PTO after the first 50 feet of cutting. Check cutter levelness and cutting height to make certain it is adjusted properly.
- 5. Do not engage PTO with 3-point cutter fully raised.
- Periodically disengage PTO, shut tractor engine off, remove key, and check for foreign objects wrapped around blade spindles. Block cutter deck up before removing objects.
- Frequently inspect cutter for loose bolts and nuts.
 Tighten all loose bolts and nuts as indicated in the "Torque Values Chart" on page 56.
- 8. For additional information, see "General Operating Instructions" on page 42.



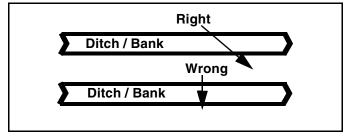
Conventional U-Joint Driveline Figure 4-1



CV Driveline Figure 4-2

Turning Angles for Pull-Type Cutters Refer to Figure 4-1 & Figure 4-2:

Avoid tractor-to-cutter turning angles exceeding 35 degrees if main driveline is a standard conventional drive shaft. The turning angle may be increased to 80 degrees if equipped with a constant velocity driveline shaft. These extreme angles are intended for intermittent usage only and not prolonged usage. Plan your field cutting to minimize the number of turns as well as extreme angles where turns are necessary.



Crossing Steep Ditches and Banks Figure 4-3

Crossing Steep Ditches & Banks Refer to Figure 4-3:



WARNING

Damage to the tractor's PTO components and/or driveline components can cause driveline to come loose and cause bodily injury to the operator and others.



IMPORTANT: Always cross steep ditches and banks at a diagonal. Never cross straight across and never back into a steep ditch or bank.

Cutting over ditches and backing up hills can tilt the cutter's back side up excessively resulting in "Bottoming Out" the driveline. Bottoming out is when the driveline shaft has shortened to the point it is pressing against the gearbox and tractor PTO shafts. Once a driveline has bottomed out, it can not be shortened anymore without causing serious damage to the tractor PTO components, cutter gearbox and driveline.

Do not operate a pull-type cutter at an angle exceeding 25 degrees up or down or at any angle that will force the driveline to bind and/or hit the tractor drawbar.

Unhook 3-Point and Semi-Mount



WARNING

Always disengage PTO, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for blades to come to a complete stop before dismounting tractor.

- See "Long Term Storage" on page 48 if cutter will not be used for a long time.
- 2. Disengage PTO, park on a level solid surface and engage tractor park brake.
- 3. Lower cutter cutter to ground as follows:

If equipped with hydraulic cylinder

- a. Fully raise deck up to transport position, shut tractor engine off, and remove switch key. Wait for blades to stop before dismounting from tractor.
- b. Remove stroke control spacers from cylinder rod.
- c. Lower 3-point arms and rear axle until cutter is resting on the ground or support blocks.

If equipped without hydraulic cylinder

- a. Lower 3-point arms until cutter is resting on the ground or support blocks.
- Shut tractor engine off and remove switch key.
 Wait for blades to stop before dismounting from tractor
- 4. If equipped with hydraulic hoses, disconnect hose from tractor. Store hose ends on cutter deck.
- Disconnect driveline from tractor.
- 6. Unhook 3-point hitch from tractor and drive tractor forward several feet.
- Reinstall hitch pins, linchpins, and hair pin cotters in cutter hitch for safe keeping.
- 8. Collapse driveline by pushing tractor end of driveline towards the cutter. Support driveline off the ground.

Unhook Pull-Type



WARNING

Always disengage PTO, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for blades to come to a complete stop before dismounting tractor.

IMPORTANT: Always place parking jack on a firm surface or place a board under the parking jack for additional support.

- 1. See "Long Term Storage" on page 48 if cutter is not going to be used for a long time.
- Park cutter on a level solid hard surface. Place tractor gear selector in park and set park brake.
- Fully raise deck up to transport position. Remove stroke control spacers from cylinder rod and lower cutter down until resting its skid shoes on the ground. See "Hydraulic Cylinder Instructions" on page 34.

Refer to Figure 1-24 on page 27:

- 4. Remove parking jack (#12) from cutter deck and secure to cutter tongue by fully inserting jack locking pin (#13) through parking jack and mounting bracket.
- 5. Disconnect hydraulic hose (#8) from tractor. Store hose ends on cutter deck.
- 6. Disconnect hitch safety chain.
- Pull back on yoke collar (#9) and hold while pulling driveline yoke from tractor PTO shaft. Store driveline off the ground to keep universal joints out of the dirt.
- 8. Use parking jack (#12) to raise and lower cutter tongue to the height needed to disconnect clevis hitch from tractor drawbar.
- 9. Remove 1"-8 x 4 1/2" hex bolt (#3), flat washers (#5) and locknut (#4) from the clevis hitch (#2).



General Operating Instructions

Now that you have familiarized yourself with the Operator's Manual, completed Operator's Checklist, properly attached your cutter to your tractor, made leveling adjustments, and preset cutting height, you're almost ready to use your Land Pride Rotary Cutter.

It's now time to do a running operational safety check. Shut the tractor off immediately and remove the key if at any time during this safety check you detect a malfunction in either the cutter or tractor. Make necessary repairs or adjustments before continuing on.

If you have a 3-point hitch model, make sure the tractor's park brake is engaged, PTO is disengaged, and cutter is resting on the ground. Start tractor and then back tractor throttle off until engine is at low idle. With tractor's rear hydraulic lift control lever, raise cutter to transport position making sure that the PTO shaft is not in a bind and does not come in contact with cutter frame. Lower cutter to ground and, with tractor still at low idle, engage PTO. If everything is running smoothly at this point increase engine RPM until the tractor's engine reaches full PTO operating speed. The RCF3696 and RCF3610 will be 540 RPM. RCFM3696 and RCFM3610 is designed to operate at 1000 RPM PTO speed. Slowly raise cutter to transport height to make sure driveline does not bind or chatter. Then return engine to low idle, disengage PTO. and position adjustable stops on the tractor's hydraulic lift lever so the cutter can be consistently returned to the same cutting and transport height.

If you have a pull-type or semi-mount cutter make sure the park brake is on and the cutter is on the ground in mowing position. Start the tractor and reduce engine speed to low idle. Engage the PTO and increase engine RPM until you reach full PTO speed. If everything is running smoothly and your running safety check has been completed, you may disengage PTO and shut tractor engine off.

You should now be ready to move to the cutting site to begin mowing. You should have inspected and only be cutting in an area you are familiar with which is free of debris and unseen objects. Never assume an area is clear and cut extremely tall grass twice to detect potential hazards. In the event you do strike an object, stop the tractor and cutter immediately to inspect the cutter. Make necessary repairs before resuming operation. It pays to inspect a new area and to develop a plan before you cut.

Normal mowing speed will be between 2-5 mph and you will need to maintain PTO speed to produce a clean cut so make a tractor gear and range selection that will maintain this combination. Generally the quality of cut will be better at lower ground speeds; and cutting denser ground cover will create the need to slow down. In certain conditions tractor tires will roll grasses down resulting in an uneven cutting height when the grass fails to rebound before being cut. When this happens you may need to reverse the cutting direction and double cut to achieve the desired finish. You will want to avoid very low cutting heights especially on extremely uneven terrain. Always cut downward on slopes and avoid crossing the face of steep slopes. Avoid sharp drops and cross diagonally through dips to prevent hanging tractor and cutter up. Slow down in turns and avoid sharp turns if at all possible. Remember to look back often.

Now that you're prepared and well briefed you may begin cutting by:

- Reducing tractor's engine RPM and lower cutter to the preferred cutting height.
- Engage PTO and then raise engine RPM to the appropriate PTO speed. Begin cutting.

When it is difficult to make a wide turn and you need to reverse direction, the 3-point hitch models can be lifted into transport position to make a tight turn. Operators of pull-type or semi-mount models must plan ahead and choose a cutting pattern that allows for wider turns. Try increasing or decreasing ground speed to determine the effect on quality of cut. With a little practice you will be pleased with what you and your Land Pride cutter can do.

When you are done mowing, need to take a break, or just need to make a few adjustments to the cutter, remember to always reduce tractor's engine RPM, disengage PTO, stop on level ground, set park brake, turn off engine, remove switch key, and stay on the tractor until the cutter blades have come to a complete dead stop.

See "Features and Benefits" section or "Features & Benefits" for additional information and performance enhancing options.



Maintenance

Proper servicing and adjustments are key to the long life of any implement. With careful inspection and routine maintenance, you can avoid costly downtime and repair.

Check all bolts and pins after using the cutter for several hours and on a regular basis thereafter to ensure they are tight and secured. Replace worn, damaged or illegible safety labels by obtaining new labels from your Land Pride dealer.



DANGER

Perform maintenance only on a cutter that is not running. Disengage PTO, place tractor in park or set park brake, shut tractor engine off, remove switch key, and wait for blades to come to a complete stop before dismounting tractor to perform maintenance.



WARNING

Frequently check all hardware to make certain it is tight and not broken or missing. Such hardware can cause the cutter to not perform properly and may lead to breakage that can cause bodily injury or death.



WARNING

Replace worn, damaged, or missing parts only with genuine Land Pride parts. Replacing parts with other brands can cause the equipment to not perform properly and may lead to breakage that can cause bodily injury or death.



CAUTION

Do not alter Land Pride equipment or replace parts with other brands. Doing so can cause equipment to perform improperly and may lead to breakage that can cause bodily injury. Replace parts only with genuine Land Pride parts.



CAUTION

Buildup of debris around moving parts and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris to avoid serious injury and property damage.



CAUTION

Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level to avoid serious injury and property damage.

Tractor Maintenance

One of the most important things you can do to prevent hydraulic system problems is ensure that your tractor's reservoir remains free of dirt and contamination.

Use a clean cloth to wipe hose ends before attaching them to your tractor. Replace your tractor's hydraulic filter element at the prescribed intervals. These simple

maintenances will go a long way to prevent occurrence of control valve and hydraulic cylinder problems.

Cutter Blade Maintenance



DANGER

Always disconnect driveline from tractor PTO shaft before servicing underside of cutter. If tractor is started with PTO engaged, the cutter can cause bodily injury or death.



DANGER

Always secure cutter deck in the up position with solid supports before servicing underside of cutter. Never work under equipment supported by hydraulics. Hydraulics can drop equipment if controls are actuated or if hydraulic lines burst. Either situation can drop the cutter instantly even when power to the hydraulics is shut off.



WARNING

Keep blade bolt access hole covered at all times except when servicing cutter blades. Make sure driveline is disconnected from the tractor before servicing cutter blades.



WARNING

Do not operate cutter with blades that are out-of-balance, bent, excessively worn, excessively nicked, or with blade bolts that are excessively worn. Such blades can break loose from the cutter at high speeds causing serious injury or death.



WARNING

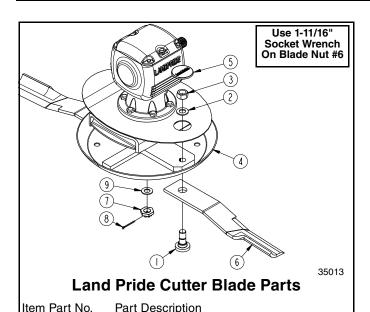
Do not attempt to straighten a bent blade or weld on a blade. Do not attempt to modify a blade such as hard surfacing, heat treating, cold treating, or by any other method. Always replace blades with a new Land Pride blade to assure safety.

IMPORTANT: Replace cutting blades in pairs with genuine Land Pride blades only. Replacing single blades can result in an out-of-balance condition that will contribute to premature bearing wear/breakage and/or structural cracks in gearbox and/or deck.

Always inspect cutting blades before each use. Make certain they are properly installed and are in good working condition. Replace any blade that is damaged, worn, bent, or excessively nicked. Small nicks can be ground out when sharpening. Remove cutting blades and sharpen or replace as follows:

- 1. Place tractor gear selector in park and/or set brakes, shut engine off and remove ignition key.
- Disconnect main driveline from tractor PTO and secure cutter deck in the up position with solid supports before servicing underside of cutter.





| 11011 | TT art 110. | Tart Boodingtion |
|-------|-------------|--|
| | 318-586A | BLADE BOLT KIT (Includes items 1, 2, 3, & 4 below) |
| 1 | 802-277C | BLADE BOLT 1 1/8-12 x 3 7/16 WITH KEY |
| 2 | 312-075D | BLADE SPACER 16 GA. (.060") |
| 2 | 312-082D | BLADE SPACER 18 GA. (.048") |
| 2 | 312-089D | BLADE SPACER 20 GA. (.036") |
| 2 | 312-808D | BLADE SPACER 24 GA. (.024") |
| 3 | 804-147C | WASHER FLAT 1 HARD ASTMF436 |
| 4 | 803-170C | NUT HEX TOP LOCK 1 1/8-12 PLATE |
| 5 | 826-430H | RCF3696 DISHPAN WELDMENT |
| 5 | 326-429H | RCF3610 DISHPAN WELDMENT |
| 6 | 840-273C | PLUG LP 3" ID RUBBER |
| 7 | | SEE LIST OF CUTTER BLADES BELOW |

Land Pride List of Cutter Blades

| Optional Low Lift Cutter Blades | | | | | | | | | | |
|---------------------------------|---------------------------------------|--|--|--|--|--|--|--|--|--|
| 820-112C | RCF3610 CUTTER BLADE 1/2 x 4 x 25 CW | | | | | | | | | |
| 820-137C | RCF3610 CUTTER BLADE 1/2 x 4 x 25 CCW | | | | | | | | | |
| 820-196C | RCF3696 CUTTER BLADE 1/2 x 4 x 20 CW | | | | | | | | | |
| 820-195C | RCF3696 CUTTER BLADE 1/2 x 4 x 20 CCW | | | | | | | | | |
| Part No. | Part Description | | | | | | | | | |

| 820-210C | RCF3696 BLADE 1/2X4X20.5 LL CCW |
|----------|---------------------------------|
| 820-211C | RCF3696 BLADE 1/2X4X20.5 LL CW |
| 820-193C | RCF3610 BLADE 1/2X4X25 LL CCW |
| 820-209C | RCF3610 BLADE 1/2X4X25 LL CW |
| | |

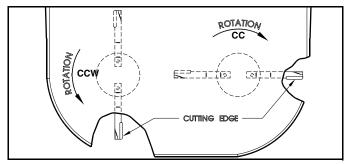
Cutter Blade Assembly Figure 5-1

Refer to Figure 5-1 on page 44:

- Remove access cover (#5).
- Rotate blade bolt (#1) until aligned with access hole.
- Unscrew locknut (#3) to remove cutting blade (#6). Blade bolt (#1) is keyed and will not turn freely.
- Both blades should be sharpened at the same angle as the original cutting edge and must be replaced or re-ground at the same time to maintain proper

balance. The following precautions should be taken when sharpening blades:

- a. Do not remove more material than necessary.
- b. Do not heat and/or pound out a cutting edge.
- c. Do not grind blades to a razor edge. Leave a blunt cutting edge approximately 1/16" thick.
- d. Always grind cutting edge so end of blade remains square to cutting edge and not rounded.
- e. Do not sharpen back side of blade.
- f. Both blades should weigh the same after sharpening with not more than 1 1/2 oz. difference.



Blade Positioning and Rotational Directional Figure 5-2

Refer to Figure 5-2:

IMPORTANT: Blades are to be timed at 90° from one dishpan to the other or they could be damaged.

- Make certain when installing cutter blades that the blades on one spindle is positioned 90 degrees to the blades on the other spindle as shown in Figure 5-2.
- Carefully check cutting edges of blades in relation to blade carrier rotation to ensure correct blade placement. Blade rotation is counterclockwise on the left side and clockwise on the right side. Airfoil (lift) must be oriented towards the top of the deck.

Refer to Figure 5-1:

IMPORTANT: Examine blade bolts (#1) and washers (#3) for excessive wear and replace if worn.

IMPORTANT: Locknuts can loose their ability to lock properly once removed. Always use a new locknut when installing blades.

- 9. Insert blade bolt (#1) through blade (#6), dish pan (#4), and flat washer (#2). Secure blade with a new locknut (#3) and torque to 450 ft-lbs.
- 10. If replacing dishpan (#4), castle nut (#7) on gearbox output shaft should be torqued to 550 ft-lbs. minimum and secured with cotter pin (#8) with both legs bent opposite directions around the nut.
- 11. Replace access rubber plug (#5) and reconnect main driveline to tractor PTO shaft.



Slip-Clutch Protected Drivelines

Cutter drive components are protected from shock loads by a friction slip-clutch. The clutch must be capable of slippage during operation to protect the gearbox, driveline and other drive train parts.

Clutch Run-In

Friction clutches should be "run-in" prior to initial operation and after long periods of inactivity to remove any oxidation that may have accumulated on friction surfaces. To prevent driveline and gear box damage, repeat "run-in" instructions at beginning of each season and when moisture and/or condensation seizes inner friction plates.

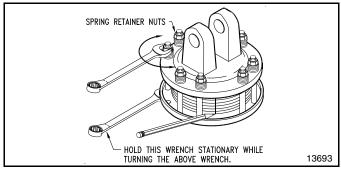


WARNING

Always disengage PTO, engage parking brake, shut off tractor, remove ignition key, and wait for all moving parts to come to a complete stop before dismounting tractor to make adjustments.

Refer to Figure 5-3:

1. Using a pencil or other marker, scribe a line across the exposed edges of the clutch plates and friction discs.



Clutch

Figure 5-3

- Carefully loosen each of the 8 spring retainer nuts on the clutch housing a total of EXACTLY 2 revolutions. It will be necessary to hold the hex end of the retainer bolt in order to count the exact number of revolutions.
- Start tractor and engage driveline for 2-3 seconds to permit slippage of the clutch surfaces. Disengage the PTO, then re-engage a second time for 2-3 seconds. Disengage the PTO, shut off tractor and remove key. Wait for all components to stop before dismounting from tractor.
- Inspect clutch and ensure that scribed markings made on the clutch plates have changed position. Slippage has not occurred if any two marks on the friction disc and plate are still aligned.

IMPORTANT: If clutch run-in procedure indicated that one or more friction disks did not slip, the clutch must be disassembled to separate the friction discs.

Tighten each spring retainer nut on the clutch housing exactly 2 revolutions to restore clutch to

- original setting pressure. See Figure 5-5 on page 46 and tables below Figure 5-5 for exact spring length.
- The clutch should be checked during the first hour of cutting and periodically each week. An additional set of scribe marks can be added to check for slippage.

Clutch Disassembly

Refer to Figure 5-4:

Disassembly of the clutch is simply a matter of removing the spring retainer nuts (#1), springs (#2) and bolts (#3) from the assembly. Each friction disc (#4) must then be separated from the metal surface adjacent to it.

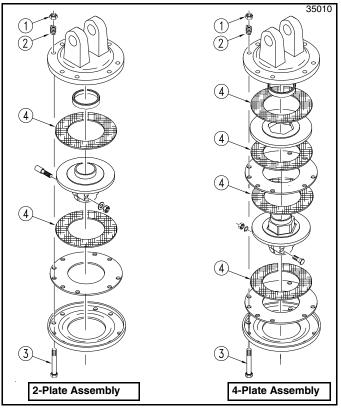
Clutch Inspection

Inspect all parts for excessive wear and condition. Clean all parts that do not require replacement. The original friction disc thickness is 1/8" (3.2 mm) and should be replaced if thickness falls below 3/64" (1.1 mm). If clutches have been slipped to the point of "smoking", the friction discs may be damaged and should be replaced. Heat build-up may also affect yoke joints.

Clutch Assembly

Refer to Figure 5-4:

Install new friction discs if needed and reassemble all components in proper order. Reassemble each friction disc (#4) next to the metal plate it was separated from. Install bolts (#3) through the end plates and intermediate plates as shown. Place springs (#2) over the bolts and secure with nuts (#1).

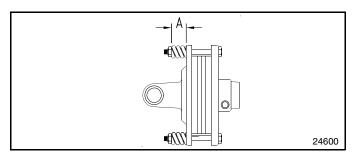


Slip Clutch Assembly Figure 5-4



Refer to Figure 5-5:

Progressively tighten each spring retainer bolt until correct spring height "A" is reached.



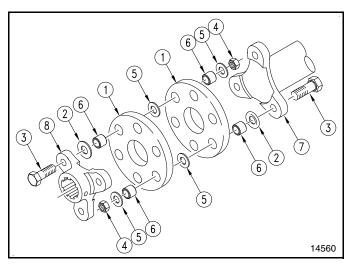
Clutch Adjustment Figure 5-5

RCF(M)3696

| Driveline No. | Driveline Location | | Cat No. | A (inches) Spring Height |
|----------------------|--------------------|------|------------|-----------------------------|
| 826-255C 826-256C | Main Jack Shaft | 540 | 4 | 1.18" |
| 826-258C 826-259C | Main Jack Shaft | 1000 | 4 | 1.09" |

RCF(M)3610

| Driveline No. | Driveline Location | PTO Speed | Cat No. | A (inches) Spring Height |
|----------------------------------|----------------------------------|--------------|------------|-----------------------------|
| 826-215C 826-220C 826-225C | Main Jack Shaft Stub Shaft | 540 | 4 | 1.18" |
| 826-216C 826-221C 826-226C | Main Jack Shaft Stub Shaft | 1000 | 4 | 1.09" |



Flex Couplers Figure 5-6

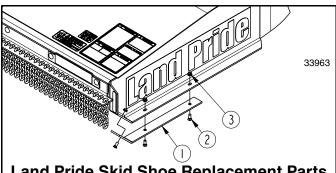
Flex Couplers

Refer to Figure 5-6:

Replace two rubber discs (#1), (Land Pride Part No. 1785273), as follows: If additional repair parts are required, refer to Land Pride's Parts Manuals 326-600P for RCF(M)3696 and 326-423P for RCF(M)3610 cutters.

- Insert three bolts (#3) through the holes in flange weldment (#7).
- 2. Place beaded washers (#2) over the three bolts with bead facing rubber disc (#1).
- 3. Place bushings (#6), rubber disc (#1), washers (#5), 2nd rubber disc (#1), 2nd bushing (#6) and 2nd washer (5) over the three bolts as shown.
- 4. Secure with nuts (#4). Do not tighten.
- 5. Insert three bolts (#3) through holes in flanged hub (#8).
- 6. Repeat steps 2 through 4.
- 7. Tighten nuts (#4) evenly with nuts torqued 35 to 40 ft-lb. Beaded washers (#2) should be embedded halfway into the rubber disc.





Land Pride Skid Shoe Replacement Parts

Part No.Part Description

326-479D SKID SHOE

802-603C PLOW 3/8" - 16 x 1" GR5 NUT HEX WHIZ 3/8-16 PLT 803-198C

> **Skid Shoe Replacement** Figure 5-7

Skid Shoe Maintenance

Refer to Figure 5-7:



WARNING

Excessive wear on skid shoes can damage side panels, cause inadequate operation of cutter, and create a safety hazard. Always replace skid shoes at the first sign of wearing thin.

A skid shoe is mounted to each side of the cutter. Check both skid shoes for wear and replace if needed. Order only genuine Land Pride parts from your local Land Pride dealer.

- Remove 3/8" hex whiz nuts (#3), 3/8" plow bolts (#2) and skid shoe (#1) as shown.
- 2. Plow bolts should be checked for wear and replaced if necessary.
- 3. Attach new skid shoe (#1) to cutter with existing 3/8" plow bolts (#2) and secure with 3/8" hex whiz nuts. Torque to 31 ft. lbs.
- 4. Repeat on opposite side.

Tire Maintenance



WARNING

Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment. When removing and installing wheels, use wheel handling equipment adequate for the weight involved.



WARNING

Always release all air pressure in air-filled airplane tires before removing hardware bolting their split rims together. Not doing so can cause the split rims to blow apart instantly and could result in serious injury or death.



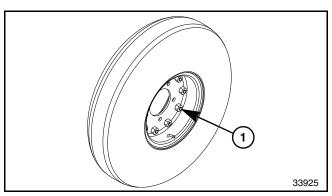
WARNING

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available. Do not overinflate tires.



WARNING

Do not weld on or heat a rim. If a tire is mounted to the rim. air pressure inside the tire can increase enough to cause an explosion. High heat can also weaken and/or warp the rim, damage the tire, and destroy foam filling inside a tire.



Air Filled Airplane Tires with split Rims Figure 5-8

- 1. Check tires for low air pressure, missing nuts, missing lug bolts, wear, separated rubber, and bent, broken, or cracked wheel rims.
- 2. Inflate air filled tires to the proper pressure. Refer to "Tire Inflation Chart" on page 56.

Refer to Figure 5-8:

Replace wheel rims and tires as needed with genuine Land Pride parts. Do not loosen split rim hardware (#1) until all air pressure in the tire has been removed.



Long Term Storage

Clean, inspect, service, and make necessary repairs to the cutter when parking it for long periods and when parking it at the end of a working season. This will help ensure the cutter is ready for field use the next time you hook-up to it.



DANGER

Always disconnect driveline from tractor PTO shaft before servicing drive train components and cutter blades. The PTO can be engaged if tractor is started causing bodily injury or death.



DANGER

Always secure cutter deck in the up position with solid supports before servicing underside of cutter. Never work under equipment supported by hydraulics. Hydraulics can drop equipment if controls are actuated or if hydraulic lines burst. Either situation can drop the cutter instantly even when power to the hydraulics is shut off.



CAUTION

Always store cutter with 3-point hitch pivoted back as far as possible. The floating 3-point hitch when not hooked to a tractor can fall backwards unexpectedly causing bodily injury.

- Clean off any dirt and grease that may have accumulated on the cutter and moving parts. Scrape off compacted dirt from the bottom of deck and then wash surface thoroughly with a garden hose. A coating of oil may also be applied to the lower deck area to minimize oxidation.
- Check blades and blade bolts for wear and replace if necessary. See "Cutter Blade Maintenance" on page 43.
- 3. Inspect for loose, damaged or worn parts, and adjust or replace as needed.
- 4. Repaint parts where paint is worn or scratched to prevent rust. Ask your Land Pride dealer for aerosol touch-up paint. Paint is also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the aerosol part number.

| La | and Pride Touch-up Paints | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| Part No. Part Description | | | | | | | | |
| 821-011C 821-002C 821-054C 821-058C 821-066C | PAINT LP BEIGE SPRAY CAN PAINT GP BLACK SPRAY CAN PAINT MEDIUM RED SPRAY CAN PAINT GREEN SPRAY CAN PAINT ORANGE AEROSOL SPRAY CAN | | | | | | | |

- Replace all damaged or missing decals.
- 6. Lubricate as noted in "Lubrication" on page 49.
- Store cutter on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer cutter life.
- 8. Follow all unhooking instructions on page 41 when disconnecting tractor from cutter.

Ordering Replacement Parts

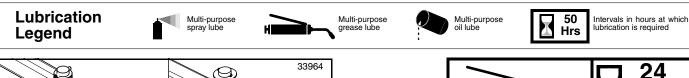
Land Pride offers equipment in factory standard beige color with black highlights. Equipment in special colors may be purchased in Green, Red, or Orange. Because of the variety of colors available, special attention must be given to the part number to prevent ordering the wrong replacement part. A suffix number corresponding to one of the colors below must be added at the end of Land Pride's part number when ordering a replacement part with that color. Parts ordered without a suffix number will be supplied in factory standard colors.

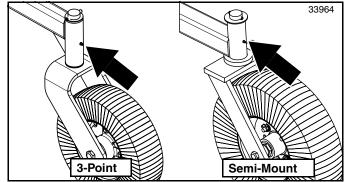
| 81 | Green | 83 | Re | b |
|----|------------|----|----|-----|
| 82 | Orange | 85 | Bl | ack |

For example, if you are ordering a replacement part with part number 555-555C and the existing part is red, then add the suffix 83 to the end of the number to make the part number read 555-555C83.



Lubrication





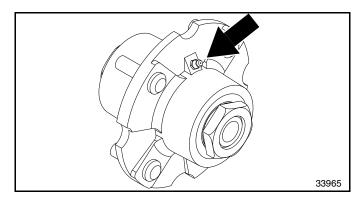


Tailwheel Spindle Tubes

3-Point & Semi-Mounted Cutters

Type of Lubrication: Multi-Purpose Grease

Quantity = 6 pumps



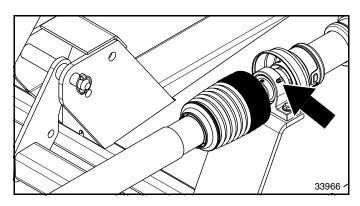


Tailwheel Hubs

The tailwheel hub is equipped with a relief hole located directly opposite the grease fitting. The relief hole releases pressure from inside the hub casting when it is greased. The hub should be greased until grease purges from the relief hole.

Type of Lubrication: Multi-purpose Grease

Quantity = Until grease purges from the relief hole



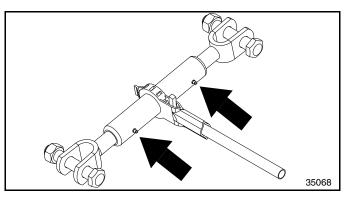


Pillow Bearing (Pull-Type Cutter)

(RCF3610 & RCFM3610)

Type of Lubrication: Multi-Purpose Grease

Quantity = As required



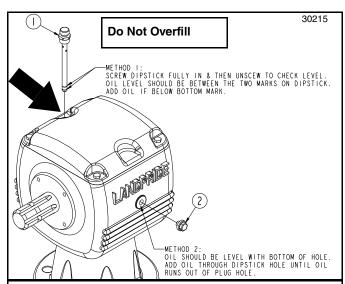


Ratchet Jack

Type of Lubrication: Multi-Purpose Grease

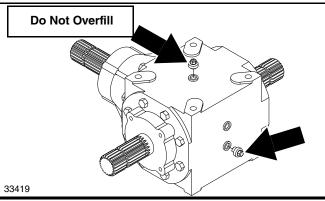
Quantity = As required





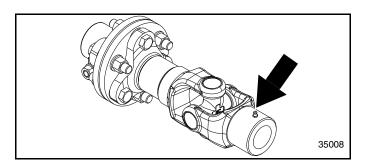
IMPORTANT: Your cutter is shipped with a vented dipstick packaged in the Operator's Manual bag and should have been installed in the gearbox by your Land Pride dealer. Please see your Land Pride dealer if vented dipstick was not included.

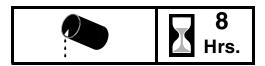
NOTE: Use a suction or siphon pump to drain gearboxes of oil when there is not an oil drain plug.



IMPORTANT: Your cutter is shipped with a vented dipstick packaged in the Operator's Manual bag and should have been installed in the gearbox by your Land Pride dealer. Please see your Land Pride dealer if vented dipstick was not included.

NOTE: Use a suction or siphon pump to drain gearboxes of oil when there is not an oil drain plug.





Gearbox

NOTE: Do not overfill! Cutter should be level when checking oil. Oil expands when hot, therefore, always check oil level when cold.

Method 1: Unscrew top vented dipstick (#1). Wipe oil from dipstick and screw dipstick in without tightening. Unscrew dipstick and check oil on dipstick. If below bottom level mark, add recommended gear lube through dipstick hole until oil reaches top mark on dipstick. Reinstall vented dipstick and tighten.

Method 2: Remove side oil plug (#2). If oil is below bottom of plug hole, add recommended gear lube through top dipstick hole until oil flows out of side plug hole. Reinstall and tighten side oil plug (#2) and vented dipstick (#1).

Type of Lubrication: 80-90W EP Gear Lube

Quantity = Fill until oil reaches top mark on dipstick or begins to flow out side plug hole in gearbox.



T-Gearbox

Check oil level in gearbox by removing lower rear plug in gearbox case. If oil is below lower rear plug hole, add recommended gear lube through top plug hole until oil flows out of lower rear plug hole. Reinstall oil plugs and tighten.

NOTE: Do not overfill! Cutter should be level when checking oil.

Type of Lubrication: 80-90W EP Oil

Quantity = Fill until oil flow from upper rear port of gearbox case.

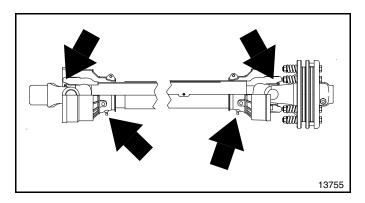


RCF(M)3610 Flex Coupler

Type of Lubrication: Multi-Purpose Grease

Quantity = As required



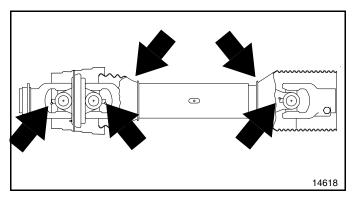




Driveline U-Joints & Profile Shields

Type of Lubrication: Multi-Purpose Grease

Quantity = 6 pumps

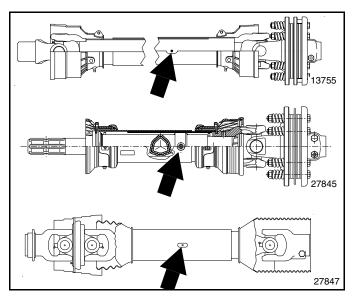




CV Driveline U-Joints & Profile Shields

Type of Lubrication: Multi-Purpose Grease

Quantity = 6 pumps

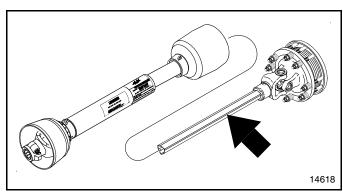




Telescoping Driveline Profiles With Zerks

Type of Lubrication: Multi-Purpose Grease

Quantity = 6 pumps





Telescoping Driveline Profiles Without Zerks

Type of Lubrication: Multi-Purpose Grease

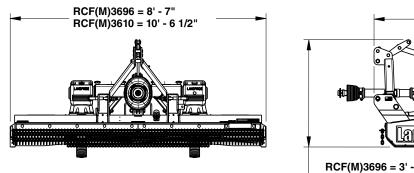
Quantity = Clean & coat the inner tube of the driveline with a light film of Multi-Purpose Grease and then reassemble.

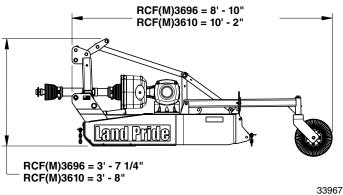


RCF(M)3696 & RCF(M)3610 Models

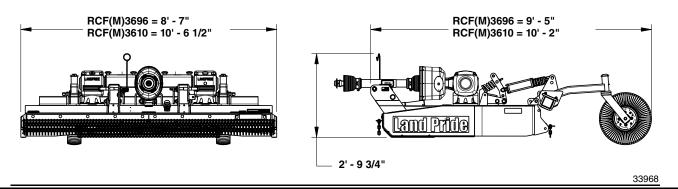
| Specifications & Capacities | | | | | | | |
|---|--|---|--|--|--|--|--|
| Model Numbers | RCF3696 (540 RPM) RCFM3696 (1000 RPM) | RCF3610 (540 RPM) RCFM3610 (1000 RPM) | | | | | |
| Machine Weight With Front & Rear With Rubber Guards. Also Includes Hydraulic Cylinder & 21" Wheels With Semi-Mount & Pull Type Units | 3-Point Mount W/ 15" Wheels = 1,750 lbs. Semi-Mount = 1,915 lbs. Pull-Type = 2,090 lbs. | 3-Point Mount = 2,230 lbs. Semi-Mount = 2,270 lbs. Pull-Type = 2,430 lbs. | | | | | |
| Hitch | 3-Point & Semi-Mount Category 1 & 2 Quick Hitch Adaptable Pull-Type - With Dual Self Level Rods | 3-Point & Semi-Mount Category 2 & 3 Quick Hitch Adaptable Pull-Type - With Dual Self Level Rods | | | | | |
| Parking Jack | | ue of Pull Type Cutter | | | | | |
| Cutting Width | 8' - 0" | 10' - 0" | | | | | |
| Overall Width | 8' - 7" | 10' - 6 1/2" | | | | | |
| Overall Length 3-Point Mounted Semi-Mounted Pull-Type | 8' - 10" 9' - 5" 12' - 5" | 10' - 2" 10' - 2" 13' - 1" | | | | | |
| Deck Height | | 3" | | | | | |
| Cutting Height | | 12" | | | | | |
| Cutting Capacity | I - | | | | | | |
| Tractor H.P. Rating (PTO) | Lift-Type - 50 - 130 Semi Mount - 40 - 130 Pull-Type - 35 - 130 | Lift-Type - 60 - 130 Pull/Semi - 50 - 130 | | | | | |
| Gearbox Rating H.P. | T-Box - 210 HP, Outboard 205 HP | | | | | | |
| Gearbox | 540 RPM or 1000 RPM PTO Driven Gearbox Cast Iron Housing, Beveled Gears | | | | | | |
| Gearbox Input/ Output Shaft Size | Input Shaft = 1 3/4" - 20 Spline Output Shaft = 2 3/8" Dia. | | | | | | |
| Gearbox Lubrication | 80-90W EP | | | | | | |
| Gearbox Oil Capacity End Boxes T-Box | Omni = 5.5 Pints or Comer = 10 Pints Comer = 4.5 Pints | Omni = 5.5 Pints or Comer = 10 Pints Comer = 4.5 Pints | | | | | |
| Deck Material Thickness | | auge | | | | | |
| Deck Side Skirt Thickness | ·· | 4" | | | | | |
| Skids | · | ceable | | | | | |
| Stump Jumper | 2 ea 3/16" Round Pan 1/2" x 4" Heat Treated | | | | | | |
| Blades (4) | 1/2" x 4" Heat Treated Free-Swinging Suction Blades | | | | | | |
| Blade Bolts | Keyed with Harden Fla | | | | | | |
| Blade Tip Speed | 540 RPM 17,100 fpm 1000 RPM 17,400 fpm | 540 RPM 17,100 fpm 1000 RPM 17,400 fpm | | | | | |
| Driveline 3-Point & Semi-Mount Pull Type | ASAE Cat 4 ASE Cat. 4 Equal Angle Shaft or Constant V | = | | | | | |
| Police line Break etc. | 540 RPM - 4 p | | | | | | |
| Driveline Protection | 1000 RPM - 2 p Rubber Flex Coup | olate Slip Clutch oler to Wing Boxes | | | | | |
| Tailwheel Options | | | | | | | |
| 3-Point Without Rear Axle: 2 Tires 3-Point With Rear Axle: 2 Tires | 4" x 8" x 15 1/4" Caster Laminated 4" x 8" x 15 1/4" Caster Laminated or 6" x 9" x 21" Caster Laminated | | | | | | |
| Semi-Mount: 2 Tires | 4" x 8" x 15 1/4" Caster Laminated or 6" x 9" | | | | | | |
| Pull-Type W/ Single Spindle: 2 Tires | 6" x 9" x 21" Laminated or 24" x 7.7" Recap | | | | | | |
| Pull-Type W/ Dual Spindles: 4 Tires Wheel Bearings | 6" x 9" x 21" Laminated or 24" x 7.7" Recap | Foam Filled Aircraπ or 29" x 16 ply Aircraπ ing in Cast Iron Hub | | | | | |
| Shock Absorption | Spring Shock Absorber on Ax | • | | | | | |
| Front Guard | | Chain guard, or Double Chain Guard | | | | | |
| Rear Guard | | | | | | | |
| neal Gualu | Optional: Rubber deflector, Single Chain guard, or Double Chain Guard | | | | | | |



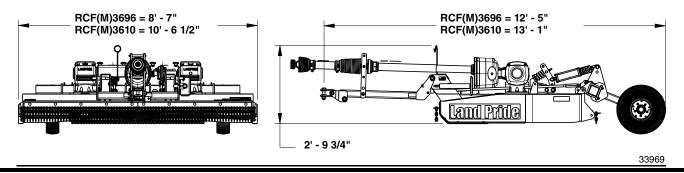




3-Point Mounted Rotary Cutter (RC3696 Shown)



Semi-Mounted Rotary Cutter (RC3696 Shown)



Pull-Type Rotary Cutter (RC3696 Shown)



RCF(M)3696 & RCF(M)3610 Models

| Features | Benefits |
|---|---|
| Surpassed rugged industry standards | All Land Pride Cutters have been designed and tested and meet rigorous voluntary testing procedures. |
| 540 or 1000 RPM | Fits wider variety of tractors. |
| High Gearbox HP rating | Gearboxes are built rugged. See Specifications for actual Gearbox HP ratings. |
| 5 Yr. limited gearbox warranty | Shows our confidence in the gearbox integrity. |
| 3 Gearboxes | Allows equal torque to be spread to left and right gearbox. |
| Splined rubber flex-couplers between the center and outboard gearboxes | Protects the driveline and gearboxes from hard objects in the blade path. |
| Pull-Type constant velocity driveline Option | Constant velocity driveline reduces chatter and extends life of U-joint during turns. |
| Slip-clutch protection on main driveline | Slip-clutch is more convenient than shear-bolt, protects gearbox against sudden impact. |
| 8'- Cat. 1 & 2 or 10'- Cat. 2 & 3 3-Point & Semi-Mount Hitches or Pull-Type Hitch | Fits a wide range of tractors. Semi-Mount and Pull-Type fit older tractors without a top link and smaller tractors without enough lift capacity. |
| 10 Gauge deck, fully welded | Fully welded deck adds rigidity. |
| 1/4" Thick sidewalls | Protects sidewalls from thrown objects. |
| Round back design | Allows for cleaner and efficient discharge of material, helps eliminate damage to rear corners by not sticking out. |
| Pull-Type w/dual leveling rods | Dual leveling rods eliminate deck twisting when going over uneven terrain. |
| Chain or rubber guard option | Reduces flying debris. |
| Full length skids with replaceable shoes | Adds reinforcement to side panels. Replaceable shoes allow for change before wearing through to weld-on piece. |
| Splined blade hub | Splined blade hub offers tight non-slipping attachment to output shaft. |
| 3/16" Round stump jumper | Standard stump jumper aids in sliding over obstructions, which helps protect gearbox output shaft. |
| 1" x 5" Blade bar | Heavy-duty blade bar adds support to stump jumper as well as gearbox output shaft. |
| 1/2" x 4" Heat-treated blades | Heat-treated blades last longer than non-heat-treated blades. |
| 3" Diameter cutting capacity | Aids in cutting brush. |
| High blade tip speed | Means cleaner cutting. See Specifications for actual blade tip speeds. |
| Laminated tires | Laminated tires can handle almost any condition and don't go flat. |
| Quick Hitch adaptable | 3-Point and semi-mount are Quick Hitch adaptable. |
| Paint Options | Choice of red, orange, green, or beige to match popular tractor lines. |



RCF(M)3696 & RCF(M)3610 Troubleshooting Chart

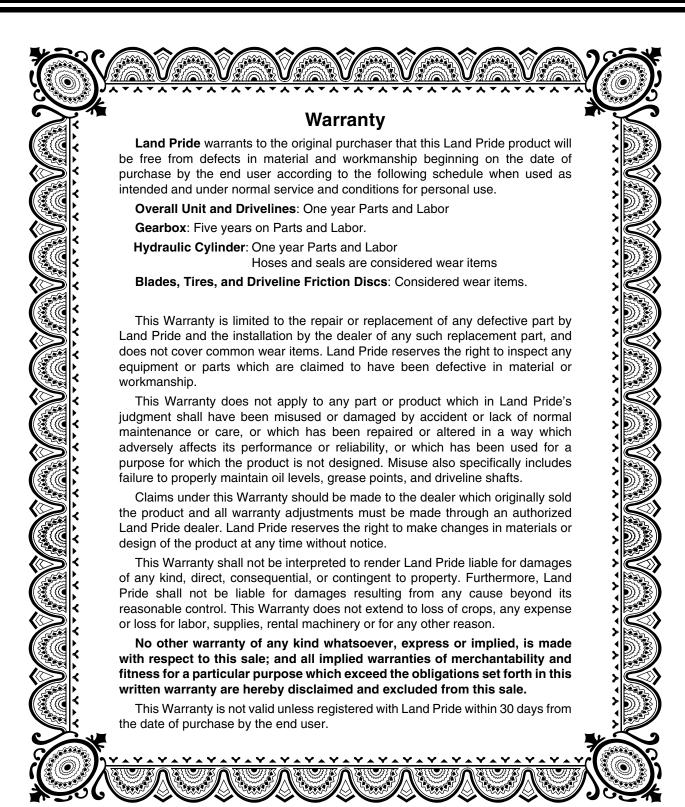
| Problem | Cause | Solution | | | | |
|--|---|--|--|--|--|--|
| | Gearbox overfilled | Drain to side plug hole | | | | |
| Oil seal leaking | Seals damaged | Replace seals | | | | |
| On Scar leaking | Grass or wire wrapped on shaft in seal area | check seal areas daily | | | | |
| Driveline yoke or cross failing | Shock load | Avoid hitting solid objects | | | | |
| Drivenine yoke or cross ranning | Needs lubrication | Lubricate every 8 hours | | | | |
| | Scalping the ground | Raise cutting height | | | | |
| should be repaired or replaced if bent) Driveline telescoping tube failing Driveline telescoping tube wearing Blades wearing excessively | Cutting too fast | Reduce travel speed | | | | |
| Driveline clutch is slipping | PTO being engaged too fast at high engine RPM | Slowly engage PTO at low engine RPM | | | | |
| | Cutting over solid objects | Avoid solid objects | | | | |
| Bent Driveline (NOTE: driveline | Contacting frame | Reduce lift height in transport position | | | | |
| | Contacting drawbar | Reposition drawbar | | | | |
| bent) | Bottoming out | Shorten driveline | | | | |
| Driveline telescoping tube failing | Shock load | Avoid hitting solid objects | | | | |
| Driveline telescoping tube wearing | Needs lubrication | Lubricate every 20 hours | | | | |
| Blades wearing excessively | Cutting on sandy ground | Raise cutting height | | | | |
| Blades wearing excessively | Contacting ground frequently | Raise cutting height | | | | |
| Blades breaking | Hitting solid objects | Avoid hitting solid objects | | | | |
| | Blades hitting each other | Blade carriers need to be timed | | | | |
| Blades coming loose | Blades not tightened properly | Tighten blade hardware. Refer to "Service Cutting Blades" on page 43. | | | | |
| | Improper deck attitude | Lower front of deck, see page 43 & page 33 | | | | |
| Bl. d | Running loose in the past | Replace gearbox output shaft and blade carrier | | | | |
| Blade carrier becomes loose | Blade carrier hardware not tight enough | Tighten to specified torque | | | | |
| Blade bolt holes worn | Blade hardware running loose | Replace blades and blade bolts if worn | | | | |
| Blade carrier bent | Hitting solid objects | Avoid hitting solid objects and replace blade carrier | | | | |
| | Cutting height not level | Adjust cutter height | | | | |
| Excessive side skid wear | Soil abrasive | Adjust cutter height | | | | |
| | Cutting too low | Adjust cutter height | | | | |
| Tail wheel support failing | Lowering too fast | Adjust rate of drop | | | | |
| Tan wheel support laming | Hitting objects when turning | Reduce speed on turns | | | | |
| | Driveline bent | Replace driveline | | | | |
| | Blades loose | Tighten blade bolts | | | | |
| Excessive vibration | Blade carrier bent | Replace blade carrier | | | | |
| LACCOSIVE VIDIALIUII | Blade broken | Replace blade | | | | |
| | Blade will not swing | Remove and inspect blade | | | | |
| | Blades have unequal weight | Replace both blades | | | | |



| Torque Values Chart for Common Bolt Sizes | | | | | | | | | | | | | | |
|---|--------------------------|--------------------|-----------|--------------|--------|-----------|------|------------------------------|-------------|-----------|------------|--------------|-------------|--------|
| | Bolt Head Identification | | | | | | | | | Bolt | Head Id | dentifica | ation | |
| | | \ | | abla | Σ | Δ | | | 5.8 | | 8.8 | | \int_{10} | .9 |
| Bolt Size | | _/ | 7 | \checkmark | abla | ノ | | Bolt Size | \ 3. | ·*/ | \° | . ° / | 10 | .9/ |
| (inches) | Grad | de 2 | Gra | de 5 | Gra | de 8 | | (Metric) | Clas | s 5.8 | Clas | s 8.8 | Class | s 10.9 |
| in-tpi ¹ | $N \cdot m^2$ | ft-lb ³ | N·m | ft-lb | N · m | ft-lb | | mm x pitch ⁴ | N·m | ft-lb | N · m | ft-lb | N·m | ft-lb |
| 1/4" - 20 | 7.4 | 5.6 | 11 | 8 | 16 | 12 | | M 5 X 0.8 | 4 | 3 | 6 | 5 | 9 | 7 |
| 1/4" - 28 | 8.5 | 6 | 13 | 10 | 18 | 14 | | M 6 X 1 | 7 | 5 | 11 | 8 | 15 | 11 |
| 5/16" - 18 | 15 | 11 | 24 | 17 | 33 | 25 | | M 8 X 1.25 | 17 | 12 | 26 | 19 | 36 | 27 |
| 5/16" - 24 | 17 | 13 | 26 | 19 | 37 | 27 | | M 8 X 1 | 18 | 13 | 28 | 21 | 39 | 29 |
| 3/8" - 16 | 27 | 20 | 42 | 31 | 59 | 44 | | M10 X 1.5 | 33 | 24 | 52 | 39 | 72 | 53 |
| 3/8" - 24 | 31 | 22 | 47 | 35 | 67 | 49 | | M10 X 0.75 | 39 | 29 | 61 | 45 | 85 | 62 |
| 7/16" - 14 | 43 | 32 | 67 | 49 | 95 | 70 | | M12 X 1.75 | 58 | 42 | 91 | 67 | 125 | 93 |
| 7/16" - 20 | 49 | 36 | 75 | 55 | 105 | 78 | | M12 X 1.5 | 60 | 44 | 95 | 70 | 130 | 97 |
| 1/2" - 13 | 66 | 49 | 105 | 76 | 145 | 105 | I | M12 X 1 | 90 | 66 | 105 | 77 | 145 | 105 |
| 1/2" - 20 | 75 | 55 | 115 | 85 | 165 | 120 | | M14 X 2 | 92 | 68 | 145 | 105 | 200 | 150 |
| 9/16" - 12 | 95 | 70 | 150 | 110 | 210 | 155 | L | M14 X 1.5 | 99 | 73 | 155 | 115 | l215 | 160 |
| 9/16" - 18 | 105 | 79 | 165 | 120 | 235 | 170 | | M16 X 2 | 145 | 105 | 225 | 165 | 315 | 230 |
| 5/8" - 11 | 130 | 97 | 205 | 150 | 285 | 210 | I L | M16 X 1.5 | 155 | 115 | 240 | 180 | 335 | 245 |
| 5/8" - 18 | 150 | 110 | 230 | 170 | 325 | 240 | | M18 X 2.5 | 195 | 145 | 310 | 230 | 405 | 300 |
| 3/4" - 10 | 235 | 170 | 360 | 265 | 510 | 375 | | M18 X 1.5 | 220 | 165 | 350 | 260 | 485 | 355 |
| 3/4" - 16 | 260 | 190 | 405 | 295 | 570 | 420 | | M20 X 2.5 | 280 | 205 | 440 | 325 | 610 | 450 |
| 7/8" - 9 | 225 | 165 | 585 | 430 | 820 | 605 | I ⊩ | M20 X 1.5 | 310 | 230 | 650 | 480 | 900 | 665 |
| 7/8" - 14 | 250 | 185 | 640 | 475 | 905 | 670 | | M24 X 3 | 480 | 355 | 760 | 560 | 1050 | 780 |
| 1" - 8 | 340 | 250 | 875 | 645 | 1230 | 910 | | M24 X 2 | 525 | 390 | 830 | 610 | 1150 | 845 |
| 1" - 12 | 370 | 275 | 955 | 705 | 1350 | 995 | | M30 X 3.5 | 960 | 705 | 1510 | 1120 | 2100 | 1550 |
| 1-1/8" - 7 | 480 | 355 | 1080 | 795 | 1750 | 1290 | L | M30 X 2 | 1060 | 785 | 1680 | 1240 | 2320 | 1710 |
| 1-1/8" - 12 | 540 | 395 | 1210 | 890 | 1960 | 1440 | ΙH | M36 X 3.5 | 1730 | 1270 | 2650 | 1950 | 3660 | 2700 |
| 1-1/4" - 7 | 680 | 500 | 1520 | 1120 | 2460 | 1820 | l F | M36 X 2 | 1880 | 1380 | 2960 | 2190 | 4100 | 3220 |
| 1-1/4" - 12 | 750 | 555 | 1680 | 1240 | 2730 | 2010 | | ¹ in-tpi = nomin | | | ter in ind | ches-thre | eads per | rinch |
| 1-3/8" - 6 | 890 | 655 | 1990 | 1470 | 3230 | 2380 | | 2 N· m = newtor | | | | | | |
| 1-3/8" - 12 | 1010 | 745 | 2270 | 1670 | 3680 | 2710 | | ³ ft-lb= foot pou | | | | | | |
| 1-1/2" - 6 | 1180 | 870 | 2640 | 1950 | 4290 | 3160 | | 4 mm x pitch = | nominal | thread | diamete | r in millir | neters x | thread |
| 1-1/2" - 12 | 1330 | 980 | 2970 | 2190 | 4820 | 3560 | LI. | pitch | | | | | | |
| Torque tolerand | e + 0%, | -15% o | f torquin | | | | | • | • | /alues li | sted abo | ve. | | |
| | | | | - 4 | Additi | onal T | 0 | rque Value | S | | | | | |
| Flex Coupler N | Nuts | | | | | 35 to 40 |) ft | -lbs. (Beaded v | vasher s | hould be | e embed | lded half | way into | rubber |
| Blade Bolt Loc | ck Nut | | | | | 450 ft-lb | os | | | | | | | |
| Blade Carrier I | Hub Nut | į | | | | 450 ft-lb | os | minimum | | | | | | |
| Wheel Lug Nu | ts | | | | | 85 ft-lbs | 3 | | | | | | | |

| Tire Inflation Chart | |
|----------------------|---------------|
| Tire Size | Inflation PSI |
| 29" AC Tire | 40 |





IMPORTANT: The Online Warranty Registration should be completed by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

| Model Number Se | erial Number |
|-----------------|--------------|
|-----------------|--------------|



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